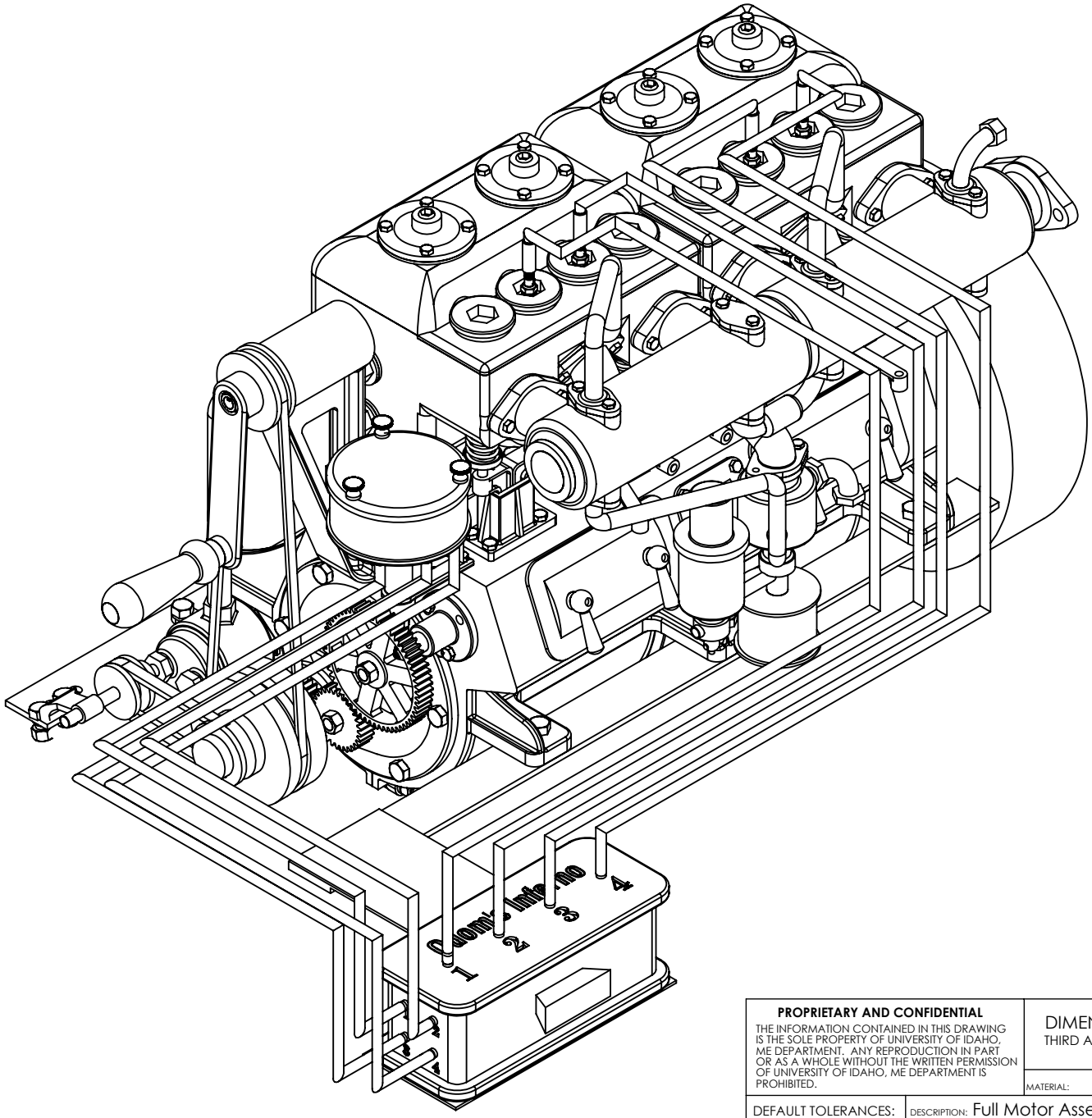

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

ME301 Spring 2011 Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Full Motor Assembly

CHECKED BY: DATE:

DRAWN BY: Odom's Inferno DATE: 5/4/2011

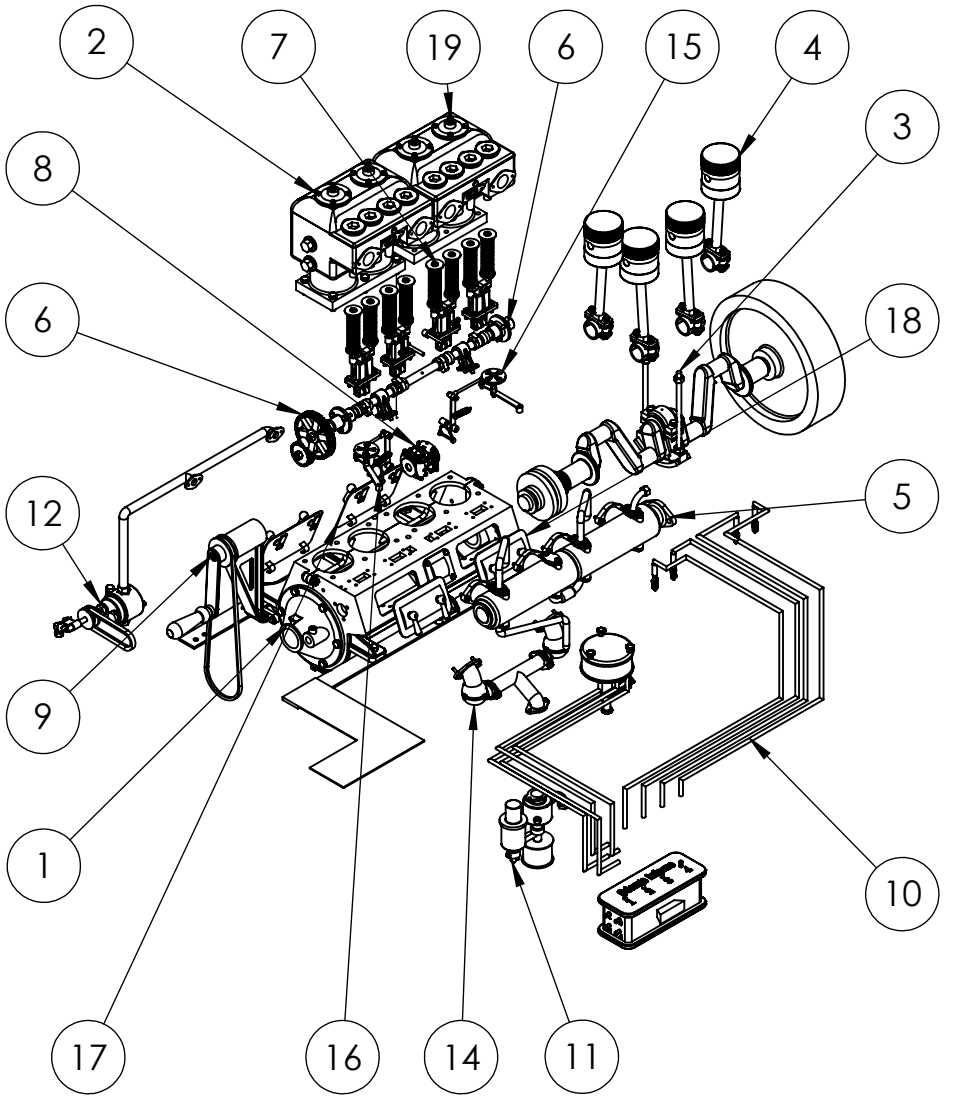
FILE NAME: Main Assembly.SLDPRT

Odom's Inferno

PART #: 00-00 QTY: 01

SCALE: 1:6 SHEET: 1 OF 2

ITEM NO.	PartNo	DESCRIPTION	QTY.	TAB
1	01-00	Block Assembly	1	A
2	02-00	Left Head Assembly	1	B
3	03-00	Crank Assembly	1	C
4	04-00	Piston and Rod Assembly	4	D
5	05-00	Exhaust Assembly	1	E
6	06-00	Camshaft Assembly	1	F
7	07-00	Valve Lifter	1	G
8	08-00	Covernor Assembly	1	H
9	09-00	Hand Crank Assembly	1	I
10	10-00	Commutator Assembly	1	J
11	11-00	Carb Assembly	1	K
12	12-00	Water Pump Assembly	1	L
13	13-00	Idler Gear Assembly	1	M
14	14-00	Intake	1	N
15	15-00	Right Side Governor Linkage	1	O
16	15-00	Left Side Governor Linkage	1	O
17	16-00	Large Cover Plate	2	P
18	17-00	Small Cover Plate	2	Q
19	18-00	Right Head Assembly	1	B



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

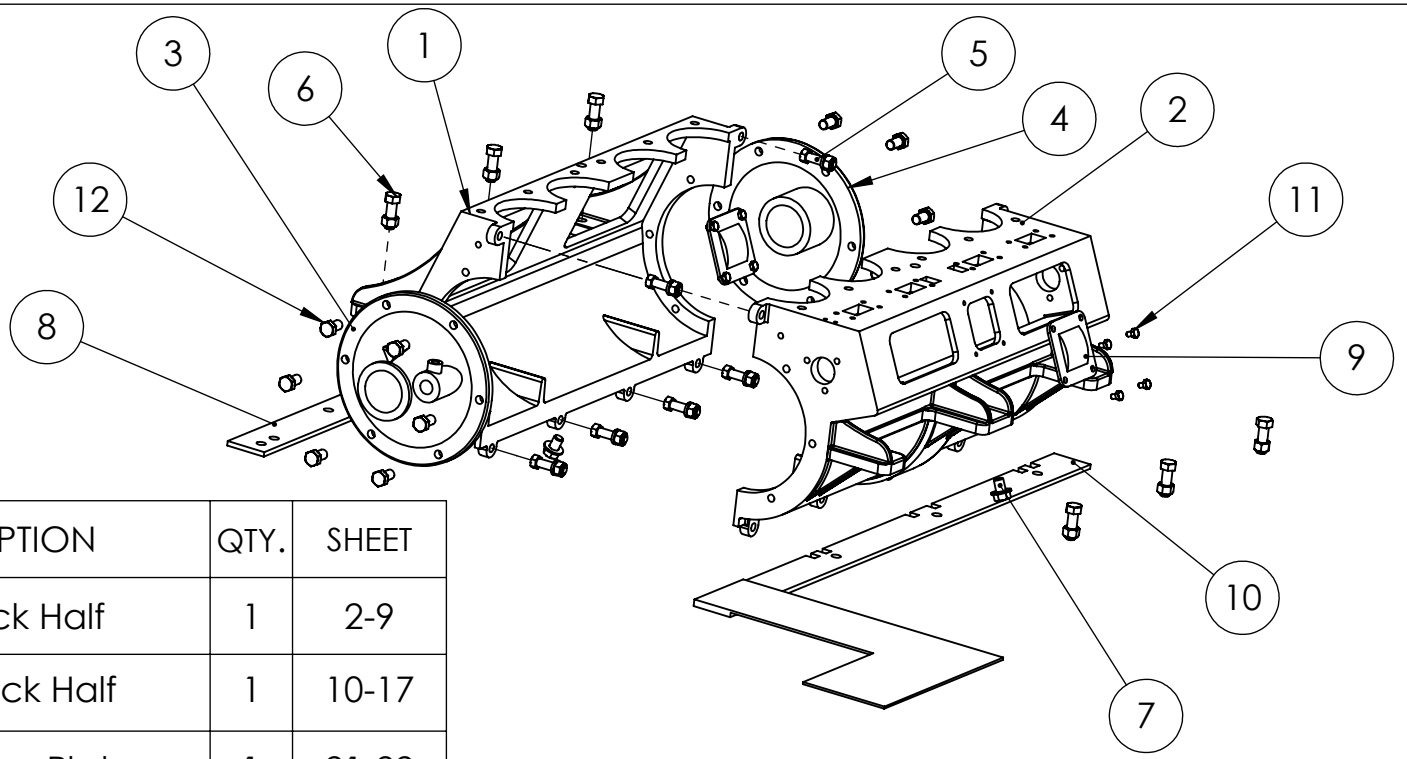
ME301 Spring 2011
Final Project
(The London Genltleman)

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Full Engine Assembly
CHECKED BY:
DATE:
DRAWN BY: Odom's Inferno
DATE: 5/3/2011
FILE NAME: Main Assembly Exploded View.SLDPRT

Odom's Inferno

PART #: 00-00
QTY: 01
SCALE: 1:20
SHEET: 2 OF 2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SHEET
1	01-01	Left Block Half	1	2-9
2	01-02	Right Block Half	1	10-17
3	01-03	Front Cover Plate	1	21-22
4	01-04	Rear Cover Plate	1	23
5	01-05	Connecting Bolt Assembly	6	
6	01-06	Frame Mounting Bolt	6	
7	01-07	Drain Plug Assembly	3	
8	01-10	Left Mounting Bracket	1	18
9	01-13	Governor Inspection Plate	1	20
10	01-14	Right Mounting Bracket	1	19
11	01-15	HEX BOLT 0.25-20X0.375	8	
12	01-16	HFBOLT 0.5-20x0.875x0.875-N	12	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

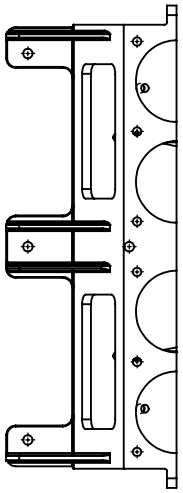
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

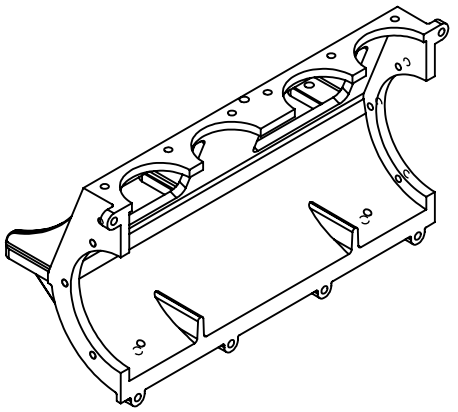
DESCRIPTION: Block Assembly
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 01 Block Assembly.SLDPRT

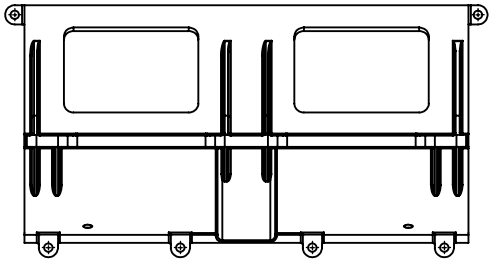
ME301 Spring 2011
Final Project
(The London Genltleman)

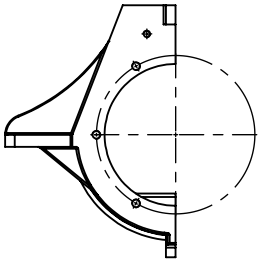
Odom's Inferno

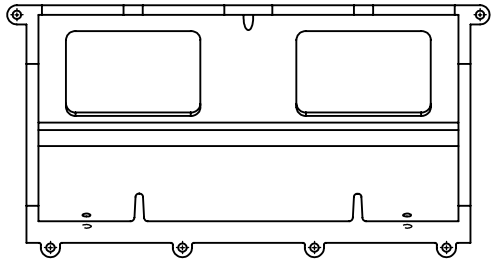
PART #: 01-00 QTY: 01
SCALE: 1:10 SHEET: 1 OF 23

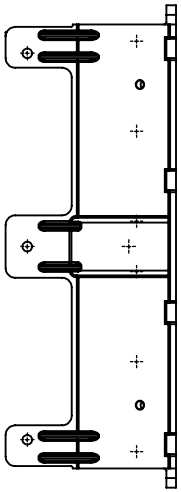












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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Left Hand Bottom Block

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 4/28/2011

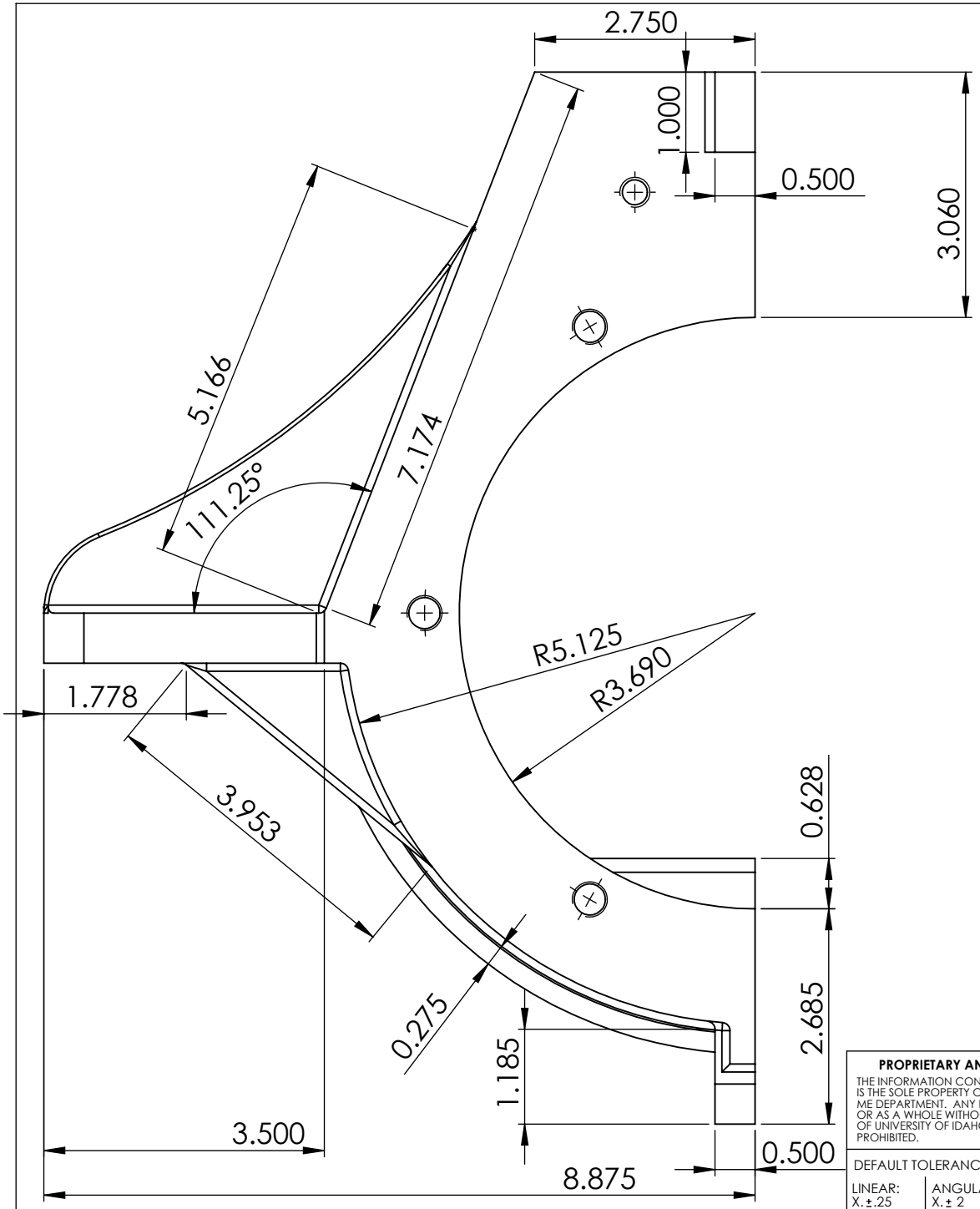
FILE NAME: 01-01.SLDPRT

ME301 Spring 2011 Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-01 QTY: 1

SCALE: 1:10 SHEET: 2 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

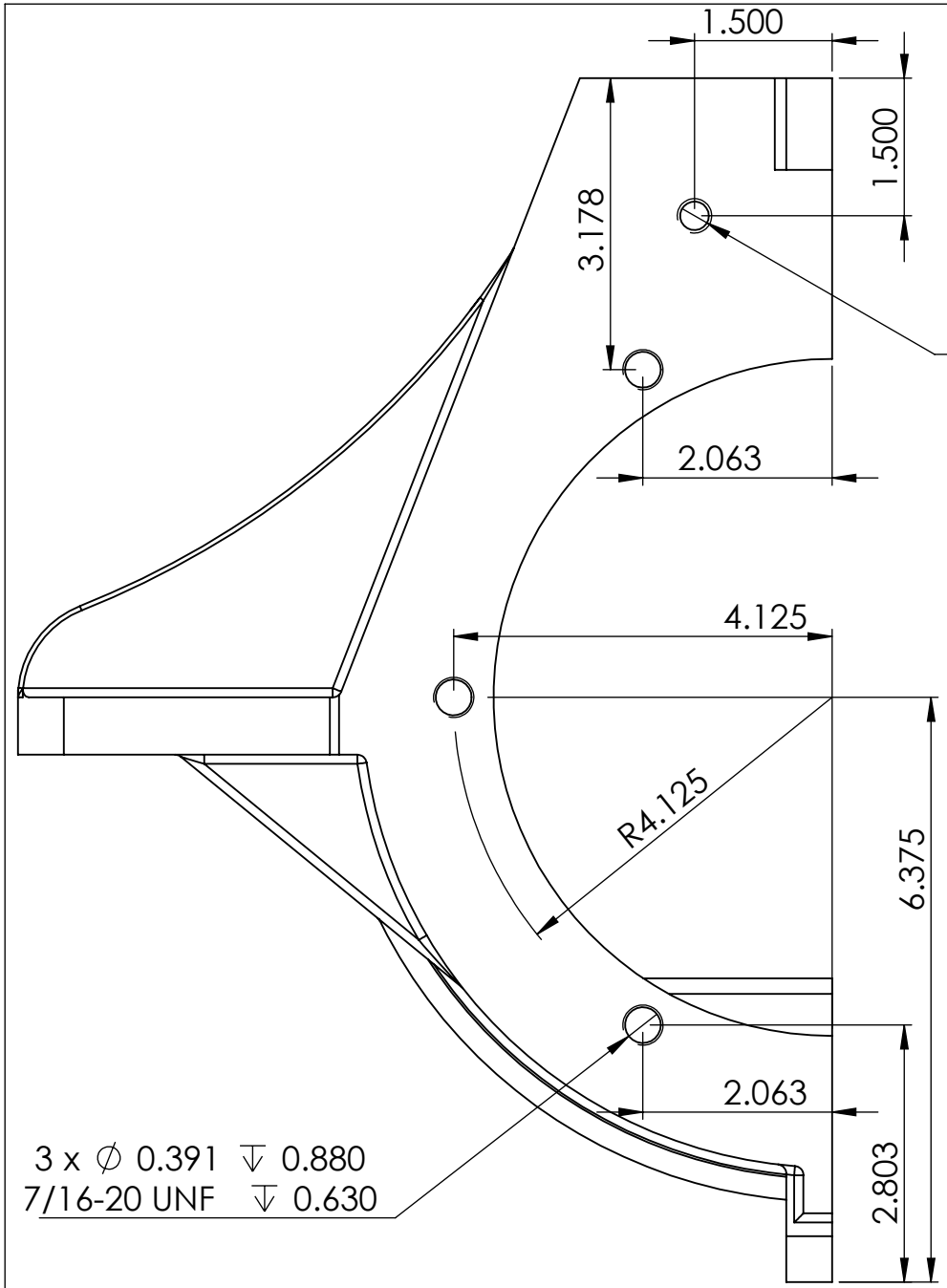
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Left Hand Bottom Block
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 4/28/2011
FILE NAME: 01-01.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-01 QTY: 1
SCALE: 1:2 SHEET: 3 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

ME301 Spring 2011
Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002

ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Left Hand Bottom Block

CHECKED BY: DATE:

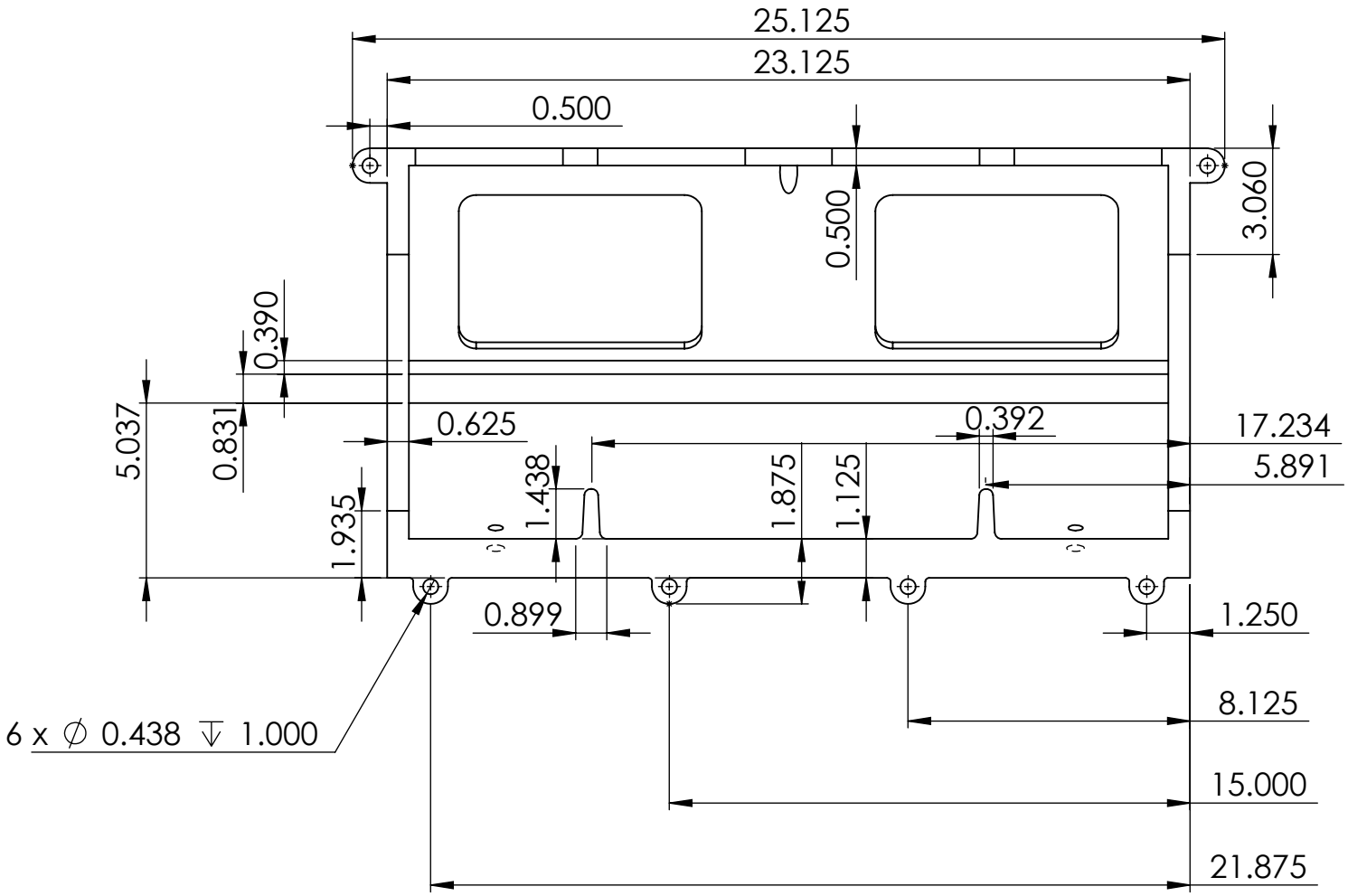
DRAWN BY: Brian Bond DATE: 4/28/2011

FILE NAME: 01-01.SLDPRT

Odom's Inferno

PART #: 01-01 QTY: 1

SCALE: 1:2 SHEET: 4 OF 23



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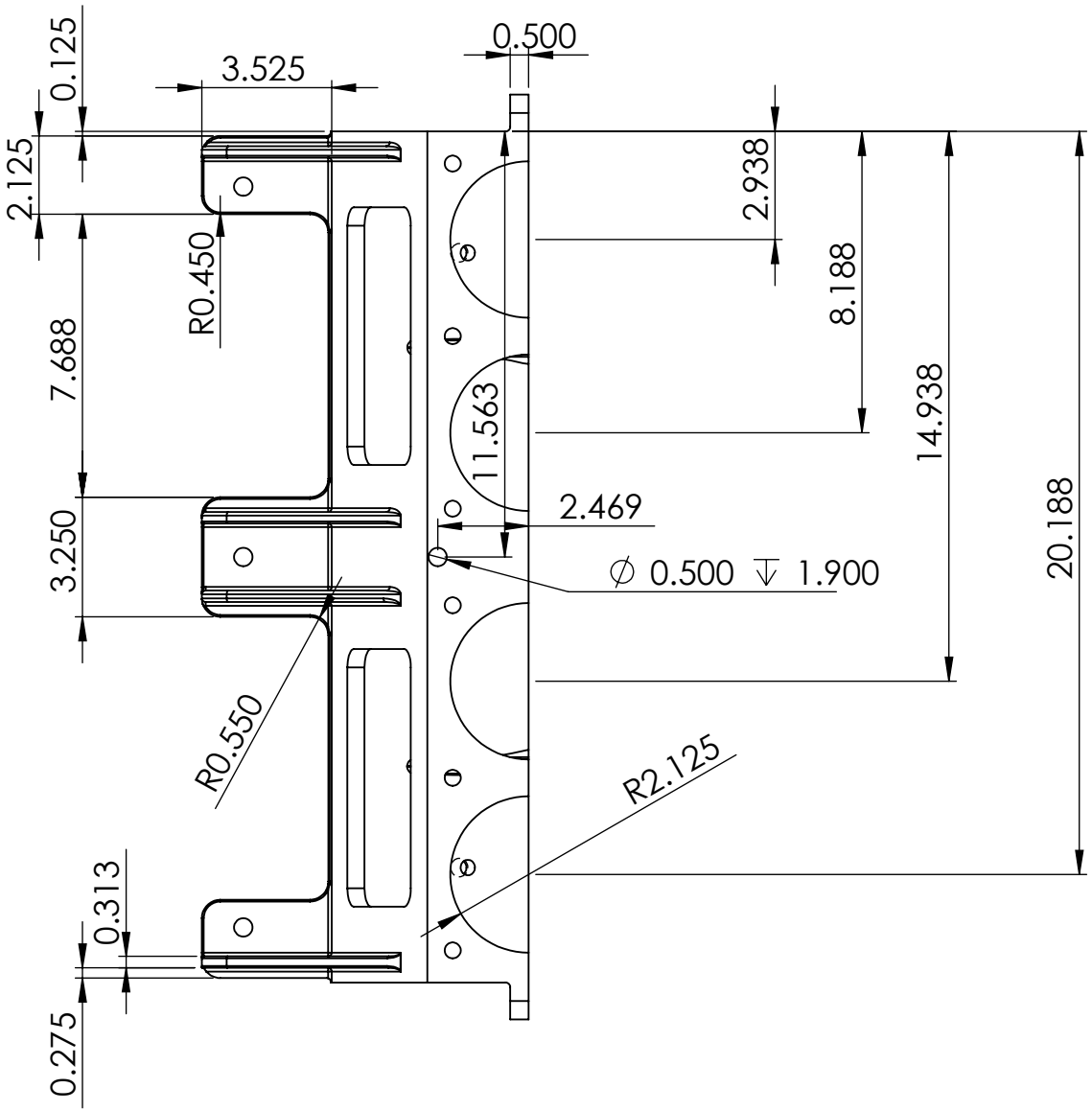
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Left Hand Bottom Block CHECKED BY: DATE: DRAWN BY: Brian Bond DATE: 4/28/2011 FILE NAME: 01-01.SLDPRT	**Odom's Inferno** PART #: 01-01 QTY: 1 SCALE: 1:5 SHEET: 5 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Left Hand Bottom Block

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 4/28/2011

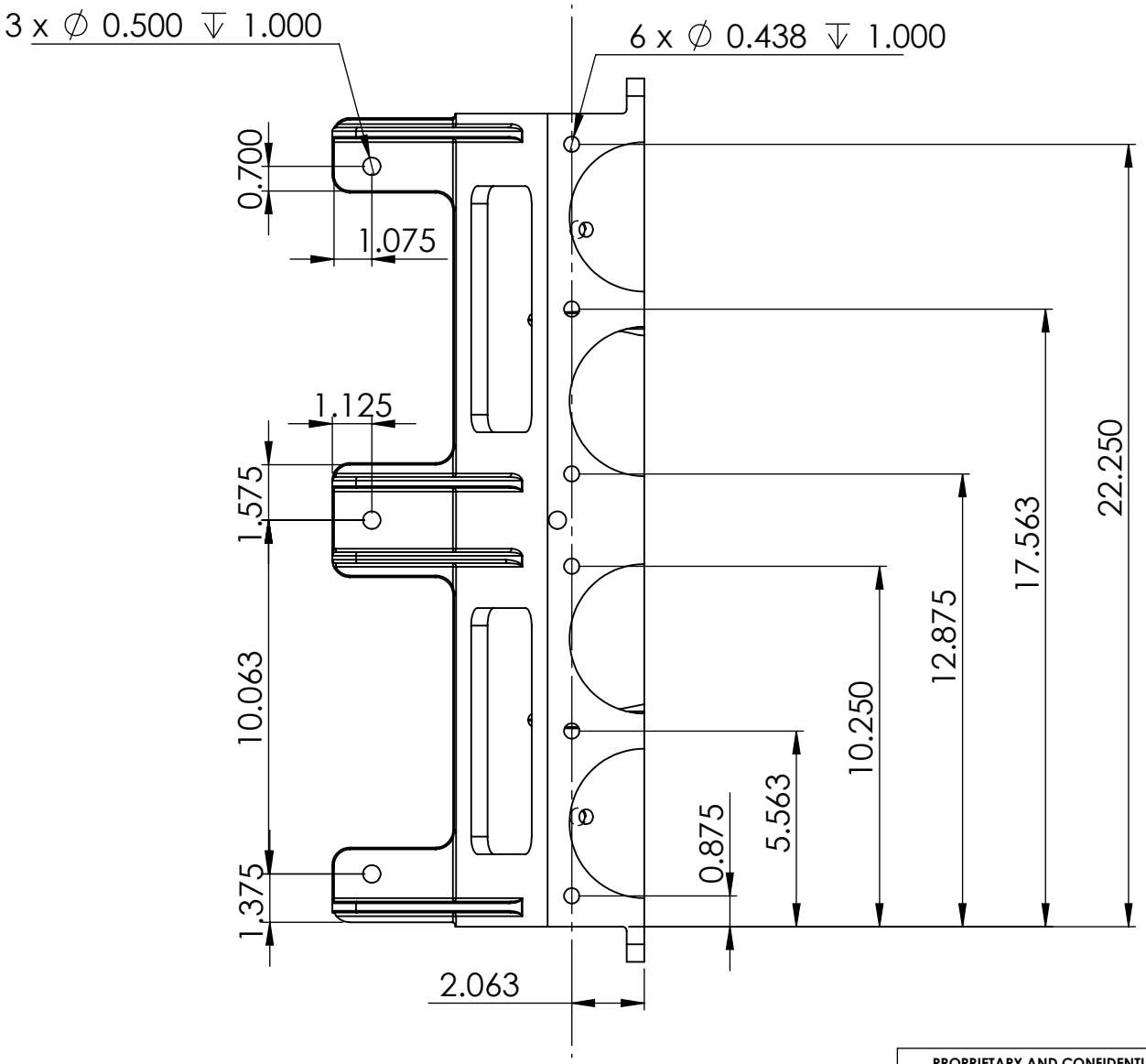
FILE NAME: 01-01.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-01 QTY: 1

SCALE: 1:5 SHEET: 6 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

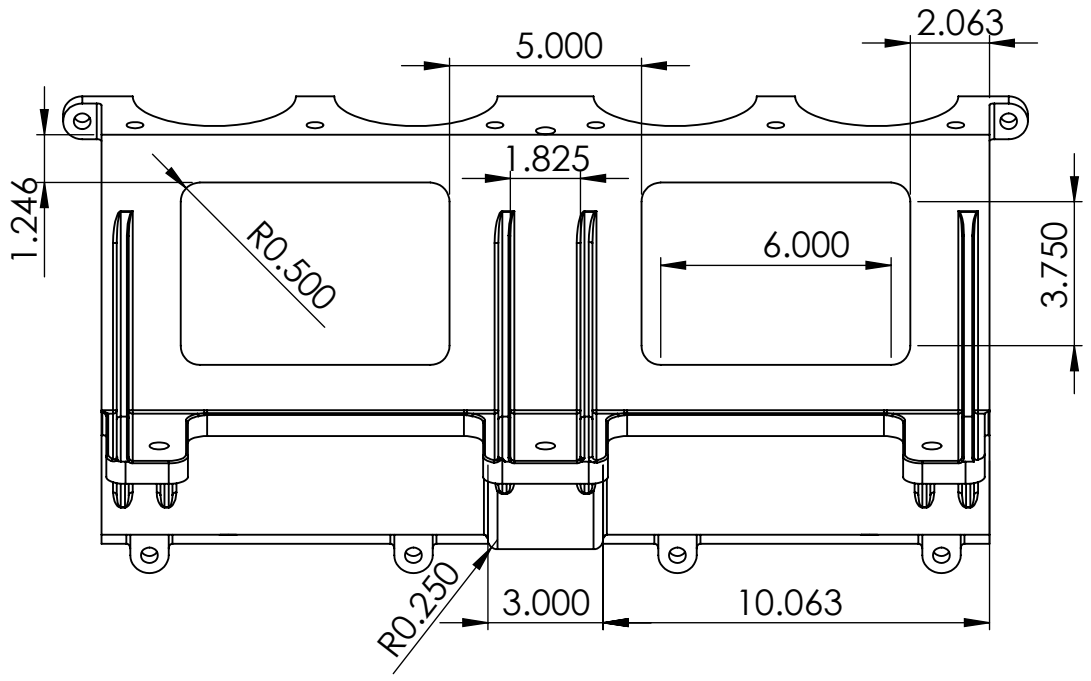
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Left Hand Bottom Block
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 4/28/2011
FILE NAME: 01-01.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-01 QTY: 1
SCALE: 1:5 SHEET: 7 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

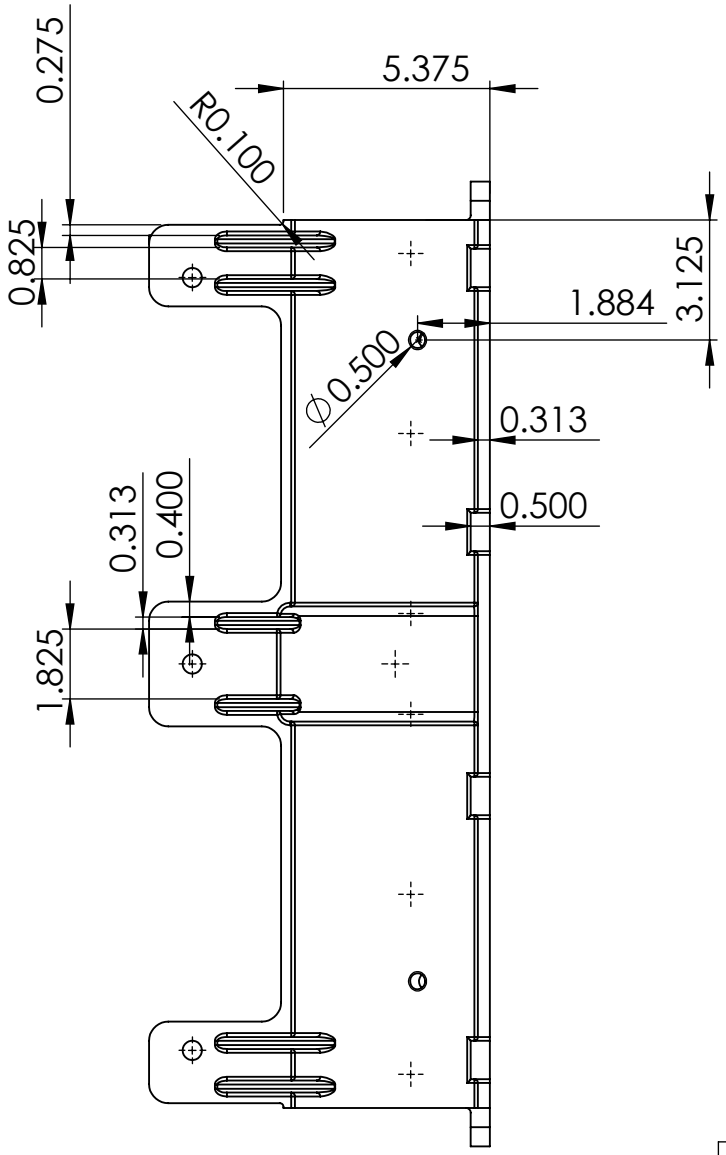
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Left Hand Bottom Block
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 4/28/2011
FILE NAME: 01-01.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-01 QTY: 1
SCALE: 1:5 SHEET: 8 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

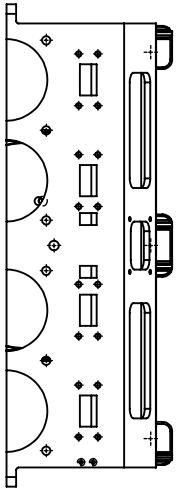
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

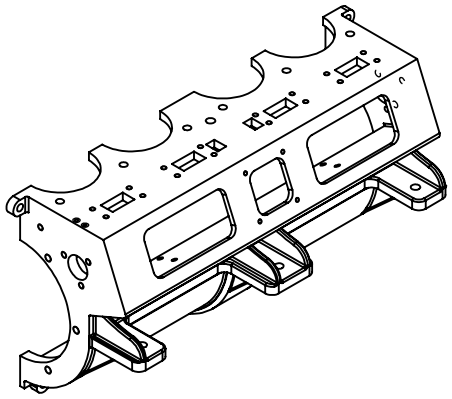
DESCRIPTION: Left Hand Bottom Block
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 4/28/2011
FILE NAME: 01-01.SLDPRT

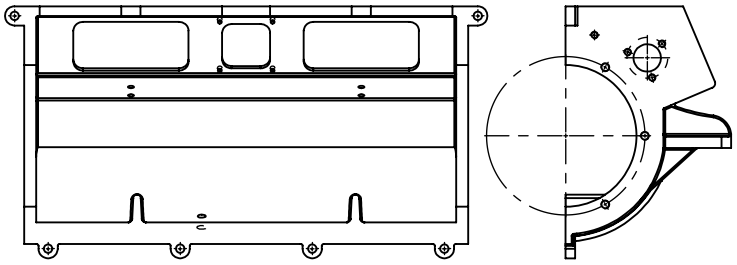
ME301 Spring 2011
Final Project
(The London Genltleman)

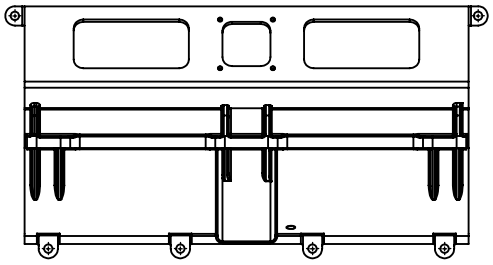
Odom's Inferno

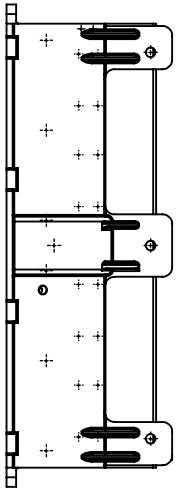
PART #: 01-01 QTY: 1
SCALE: 1:5 SHEET: 9 OF 23











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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 5/2/2011

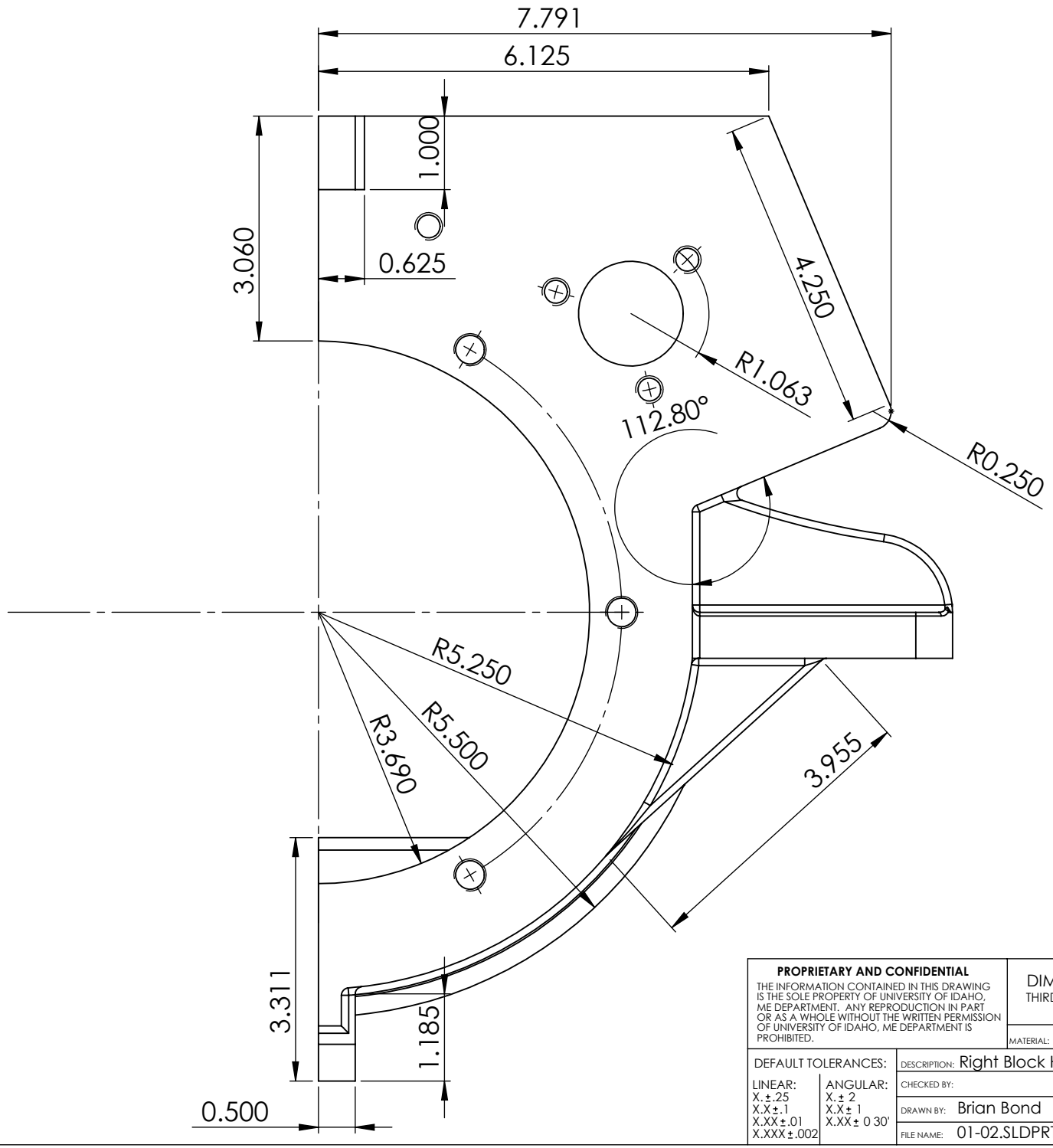
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1

SCALE: 1:10 SHEET: 10 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

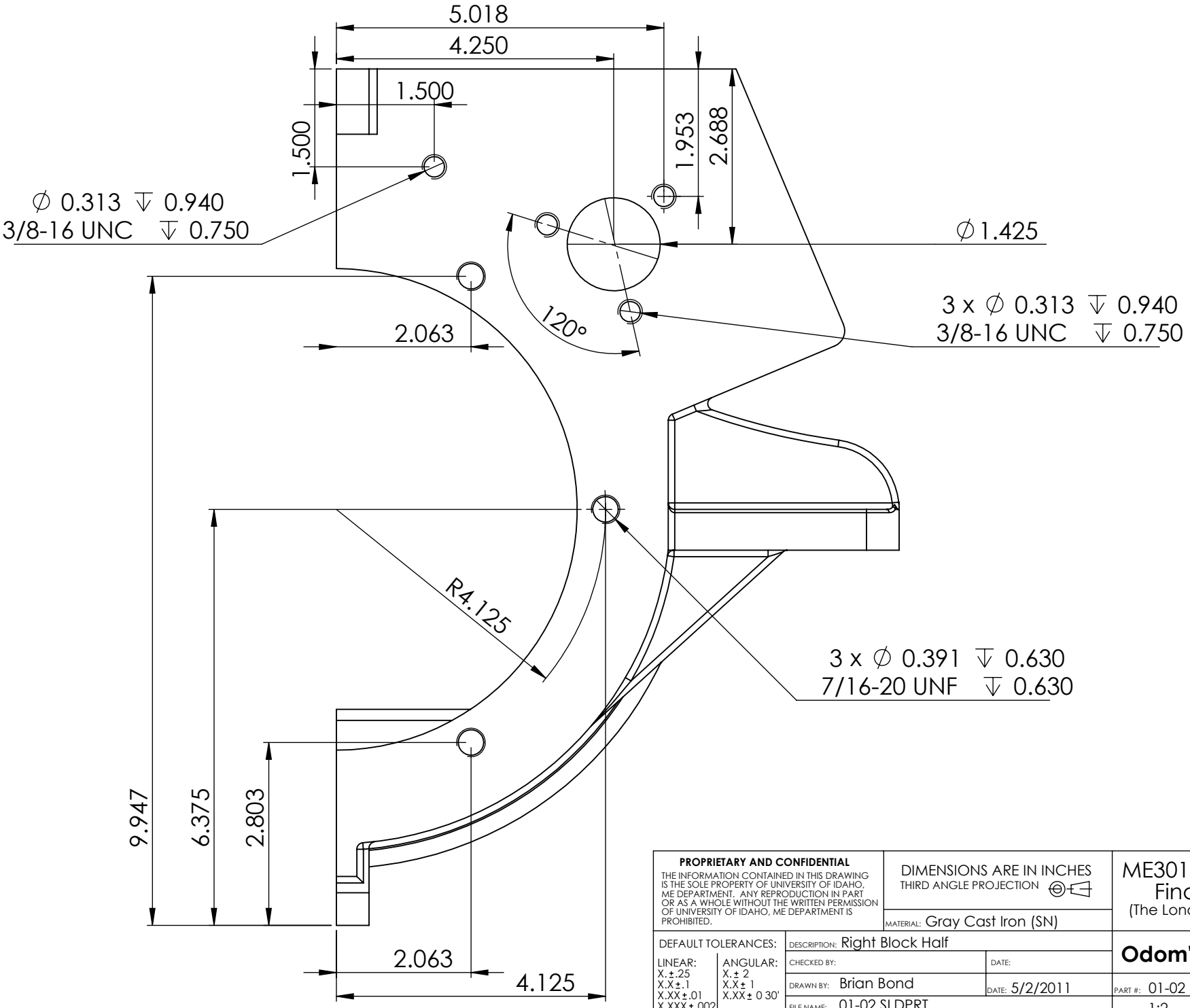
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/2/2011
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1
SCALE: 1:2 SHEET: 11 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

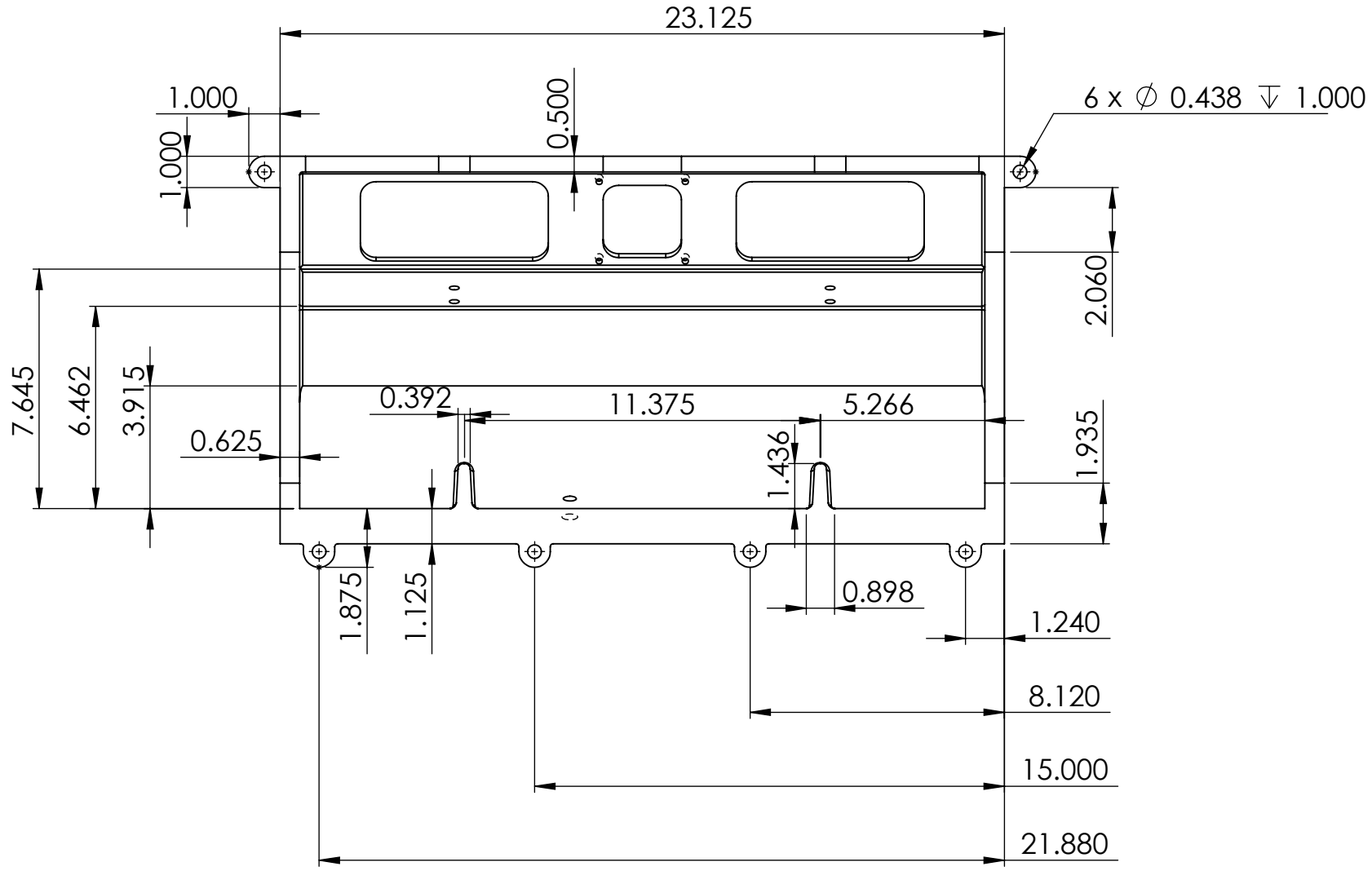
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/2/2011
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1
SCALE: 1:2 SHEET: 12 OF 23



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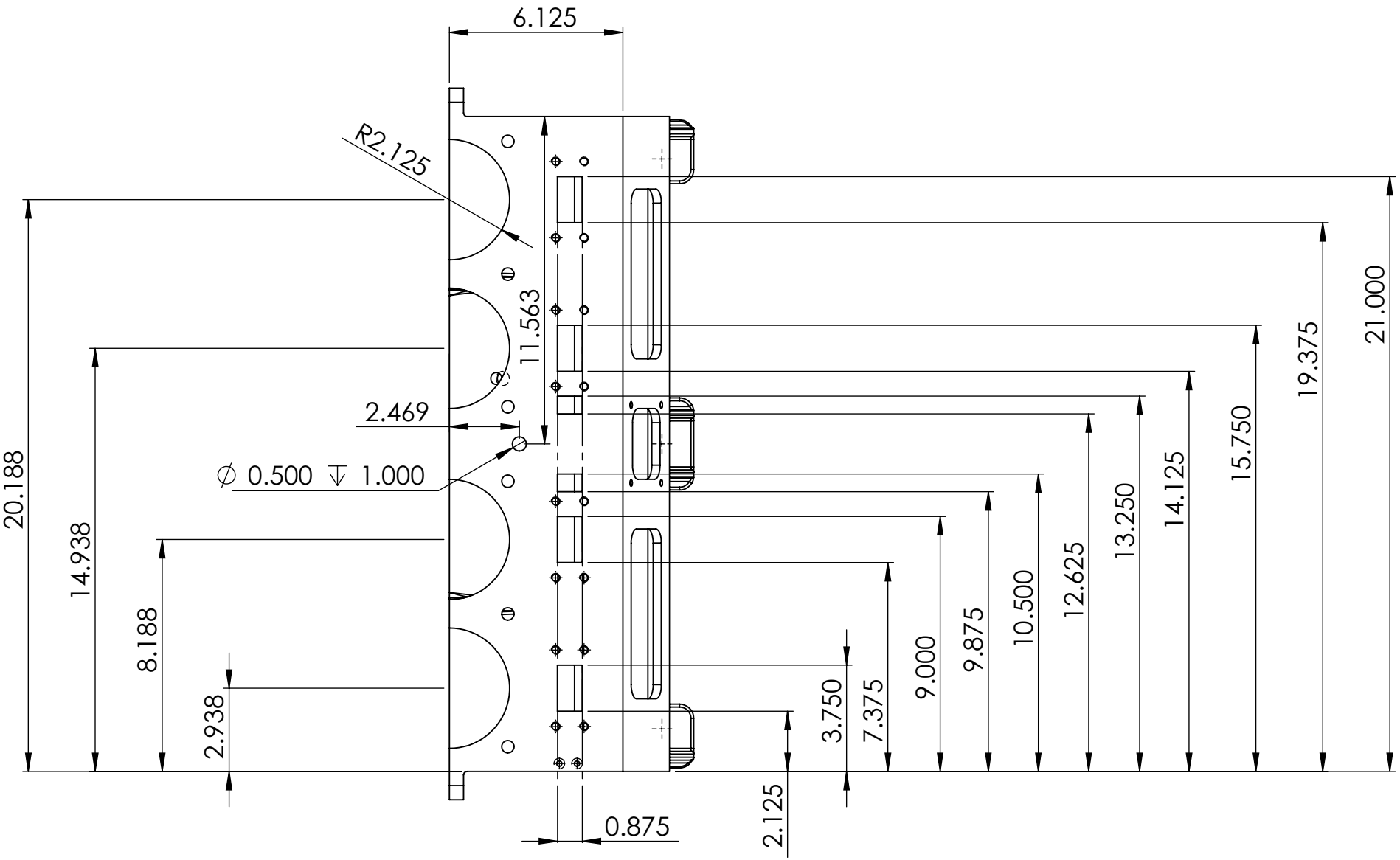
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Right Block Half CHECKED BY: DATE: DRAWN BY: Brian Bond DATE: 5/2/2011 FILE NAME: 01-02.SLDPRT	**Odom's Inferno** PART #: 01-02 QTY: 1 SCALE: 1:5 SHEET: 13 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 5/2/2011

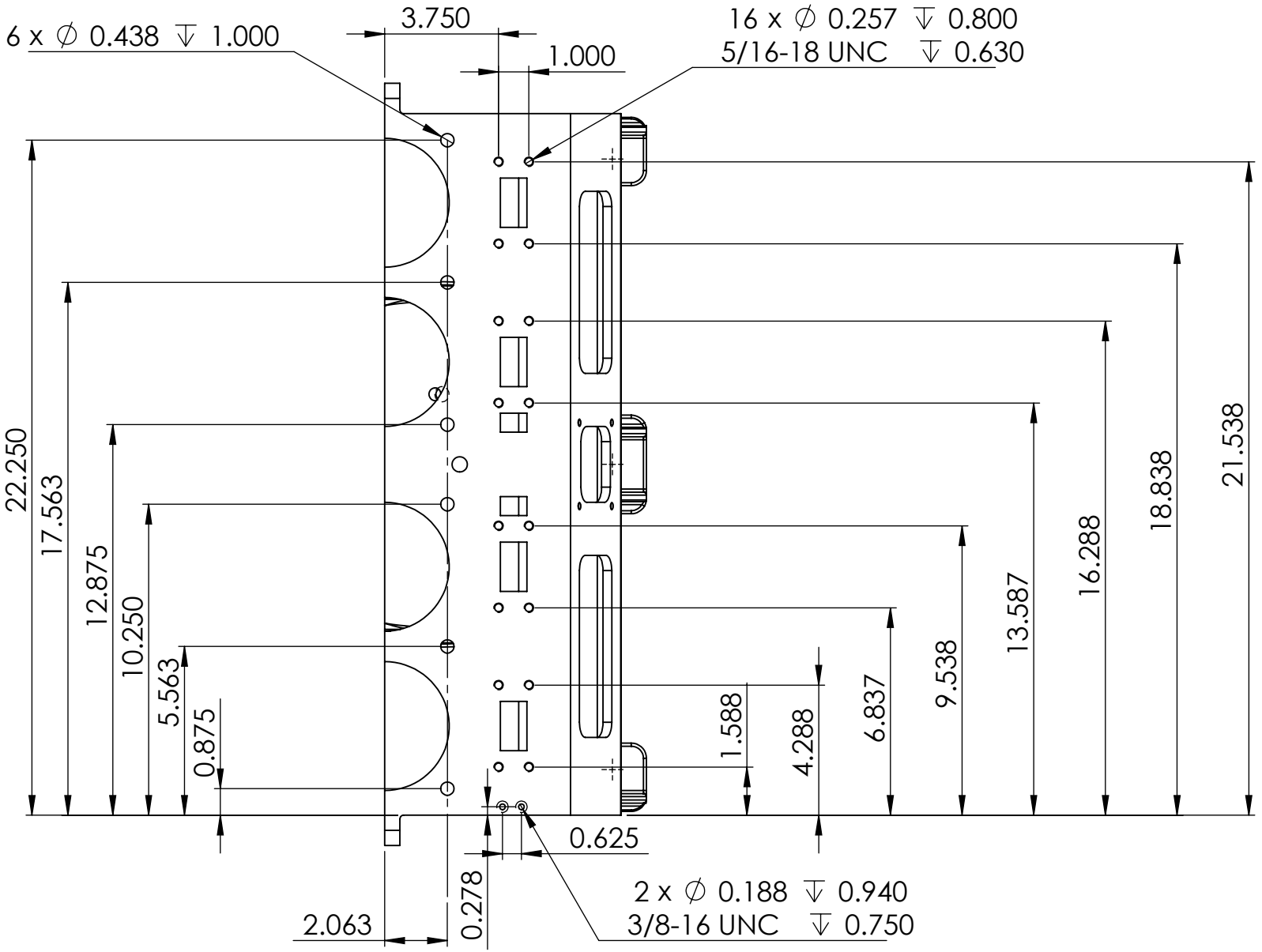
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1

SCALE: 1:5 SHEET: 14 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

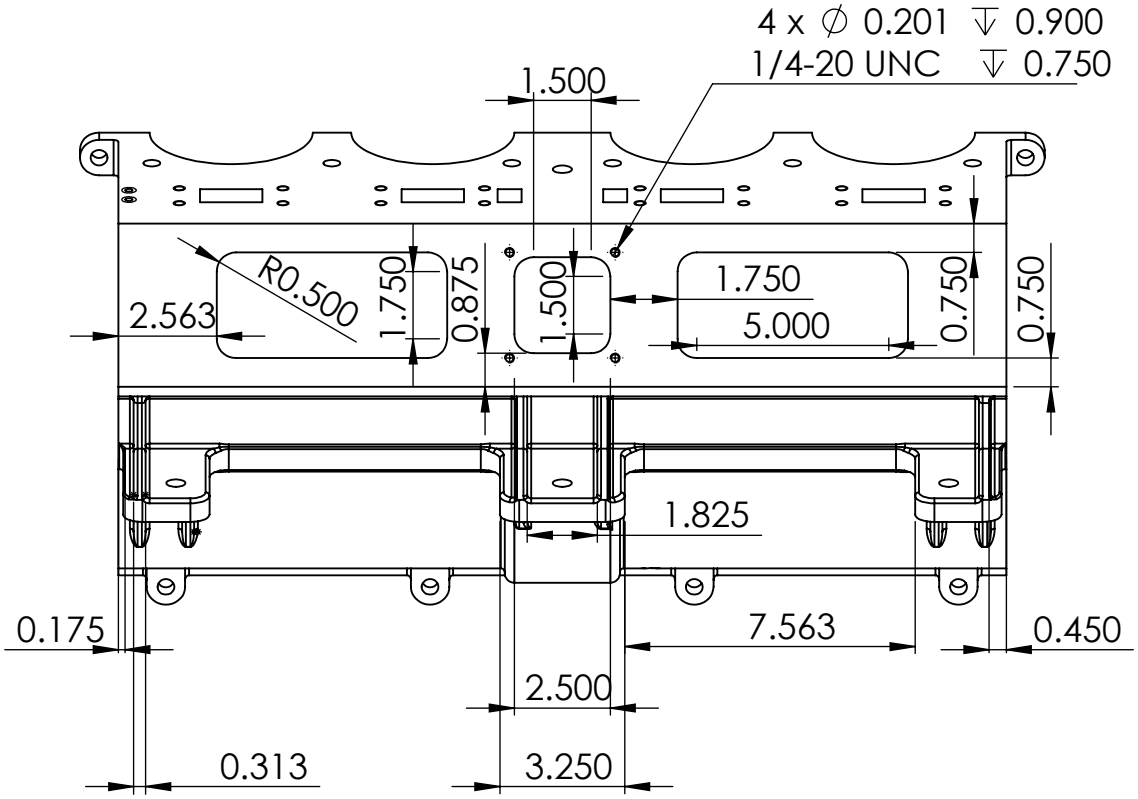
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/2/2011
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1
SCALE: 1:5 SHEET: 15 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

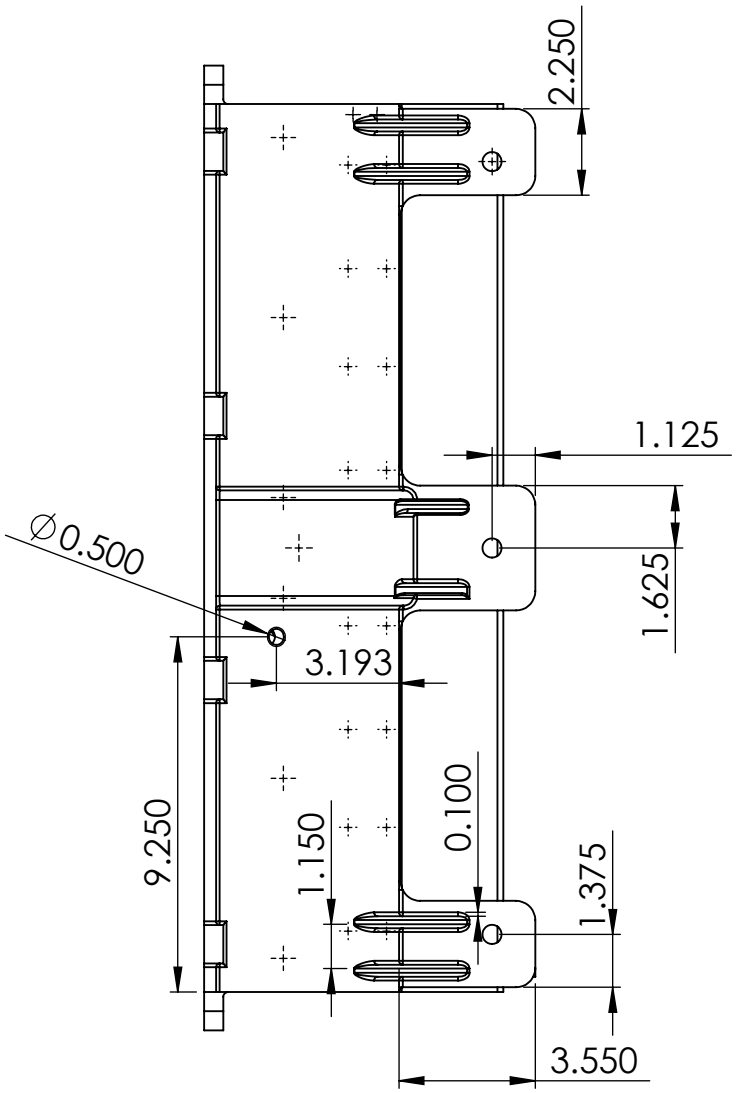
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Right Block Half
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/2/2011
FILE NAME: 01-02.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-02 QTY: 1
SCALE: 1:5 SHEET: 16 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Right Block Half

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 5/2/2011

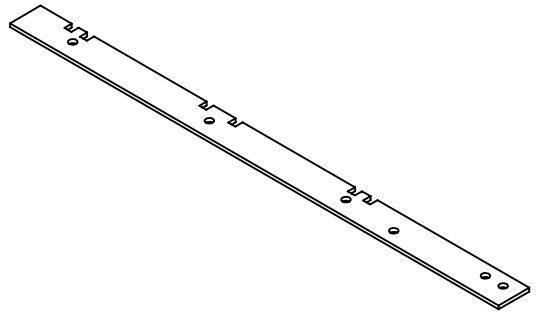
FILE NAME: 01-02.SLDPRT

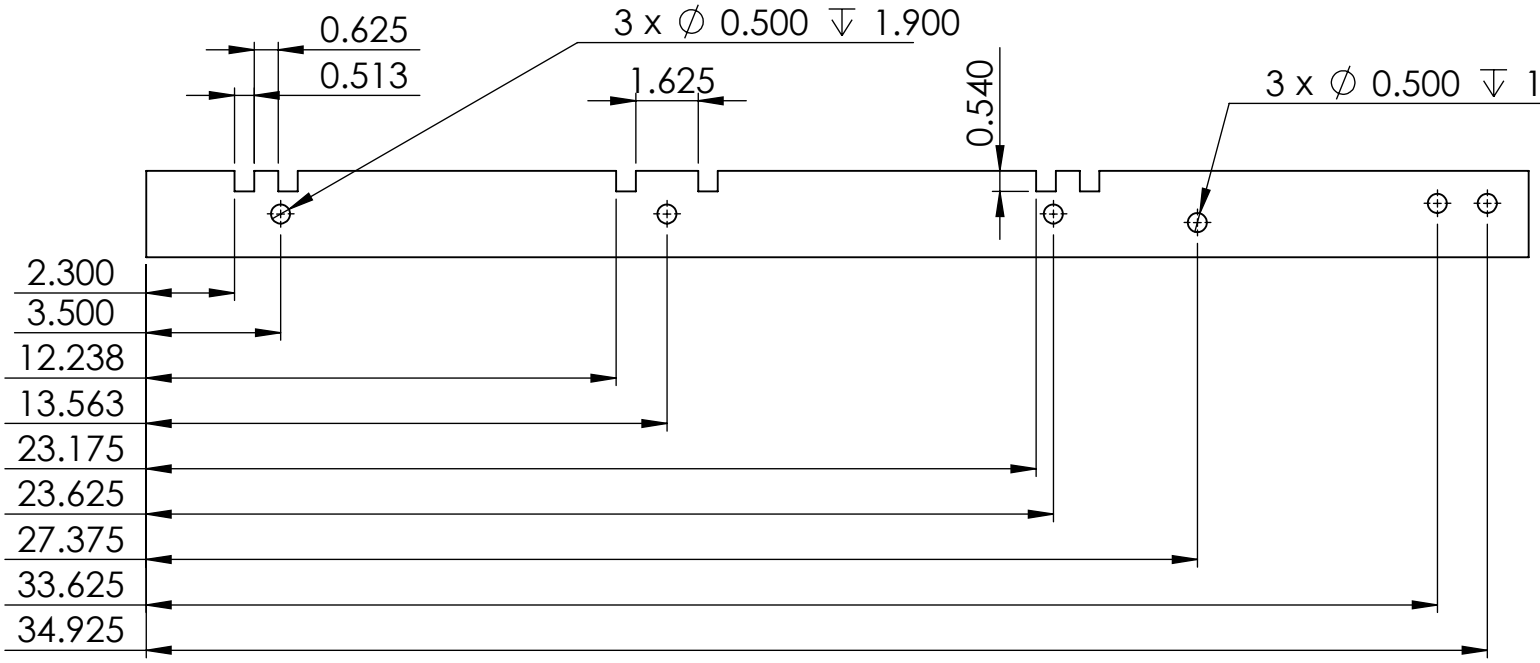
ME301 Spring 2011
Final Project
(The London Genltleman)

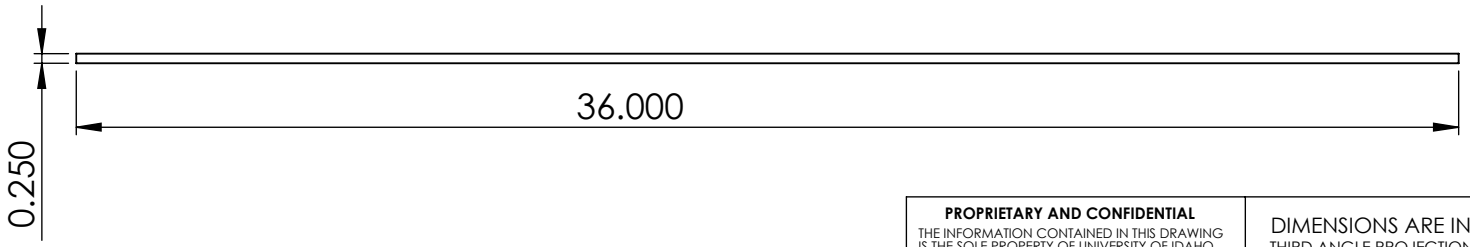
Odom's Inferno

PART #: 01-02 QTY: 1

SCALE: 1:5 SHEET: 17 OF 23







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

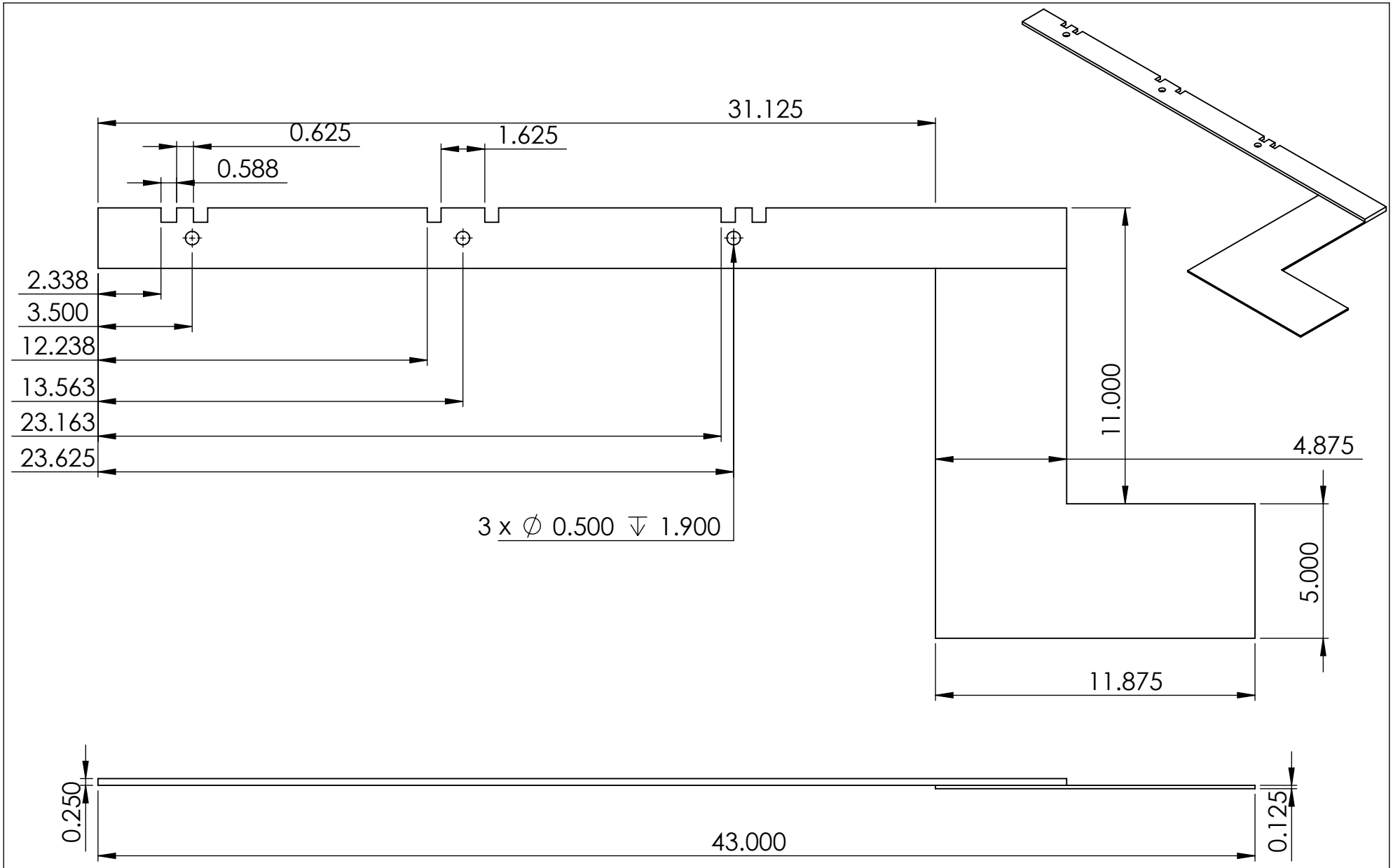
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Mounting Plate
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/3/2011
FILE NAME: 01-10.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-10 QTY: 01
SCALE: 1:5 SHEET: 18 OF 23



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

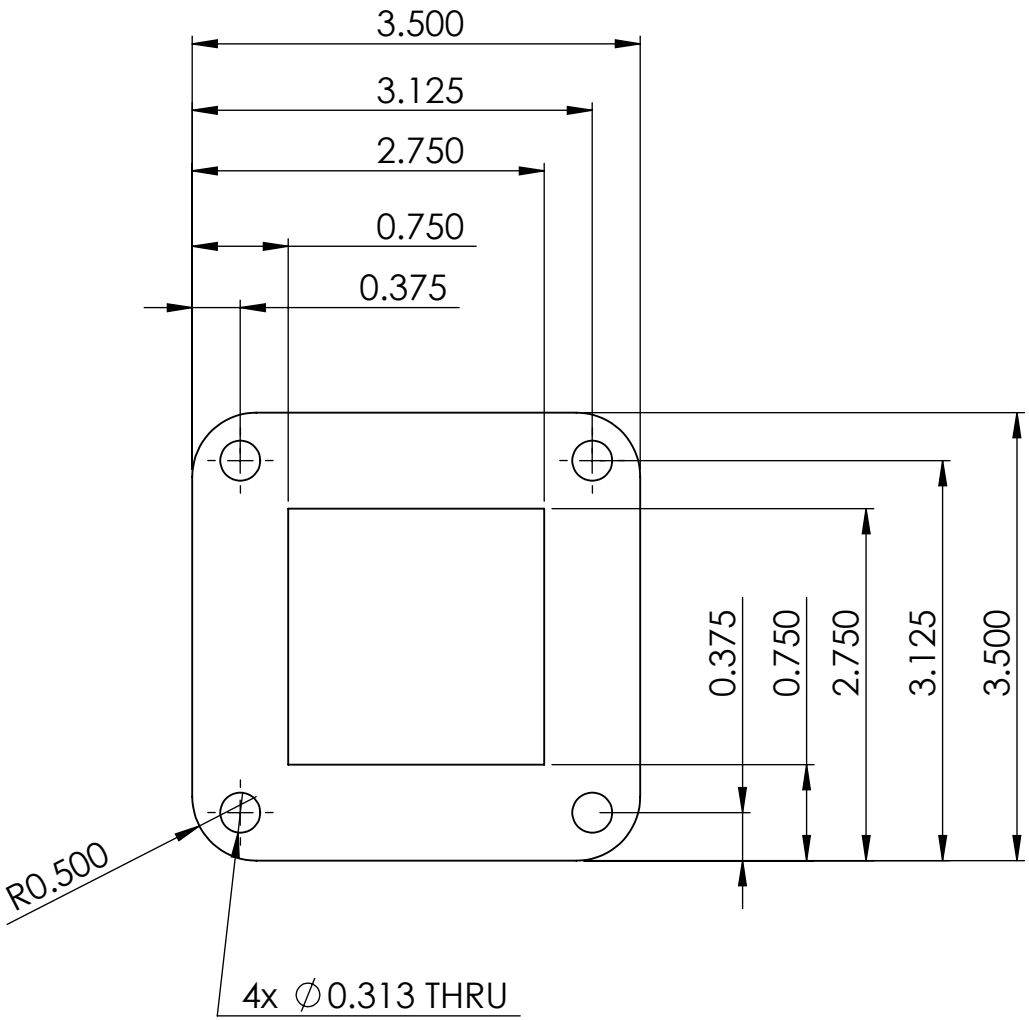
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

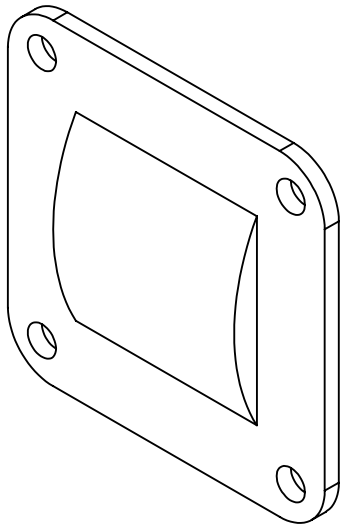
DESCRIPTION: Mounting Plate
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/3/2011
FILE NAME: 01-14.SLDPRT

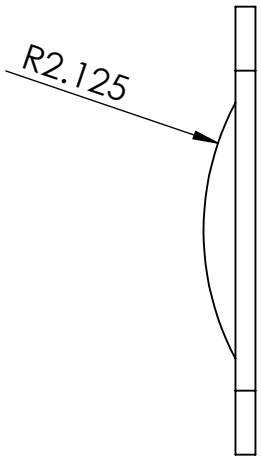
ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 01-14 QTY: 01
SCALE: 1:5 SHEET: 19 OF 23







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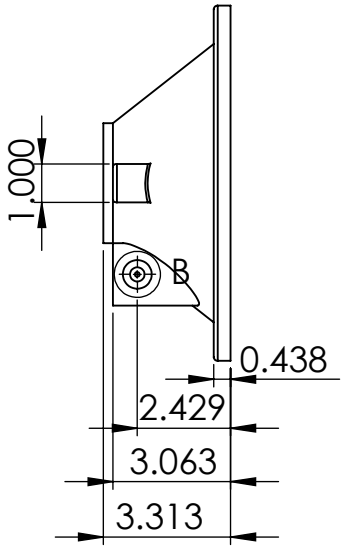
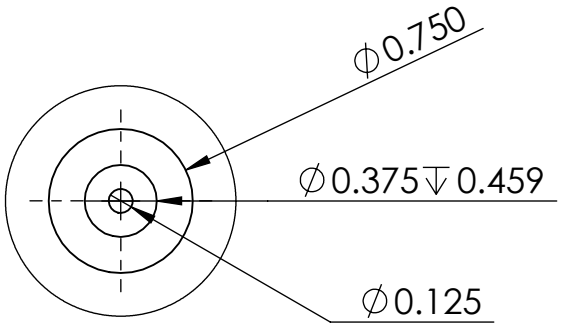
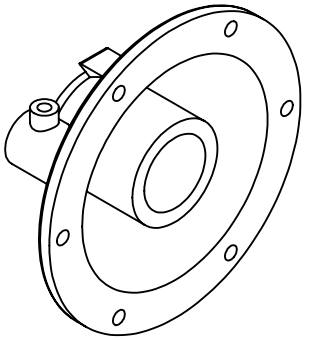
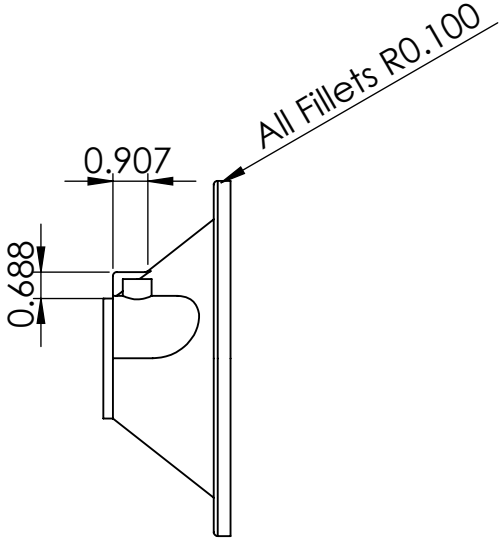
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Small Side Panel CHECKED BY: DATE: DRAWN BY: Casey Sweeney DATE: 5/4/2011 FILE NAME: 01-13 - Side Panel.SLDPRT	**Odom's Inferno** PART #: 01-13 QTY: 1 SCALE: 2:3 SHEET: 20 OF 23

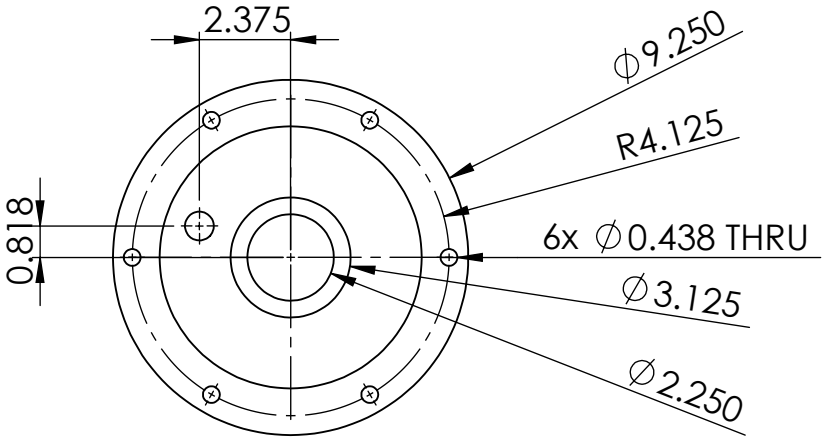




DETAIL B
SCALE 1 : 1







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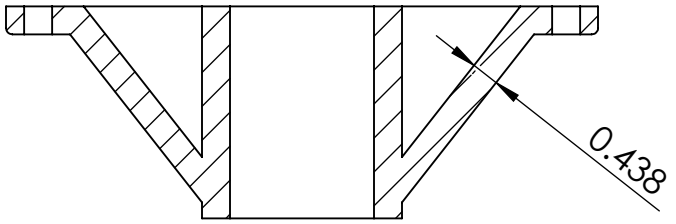
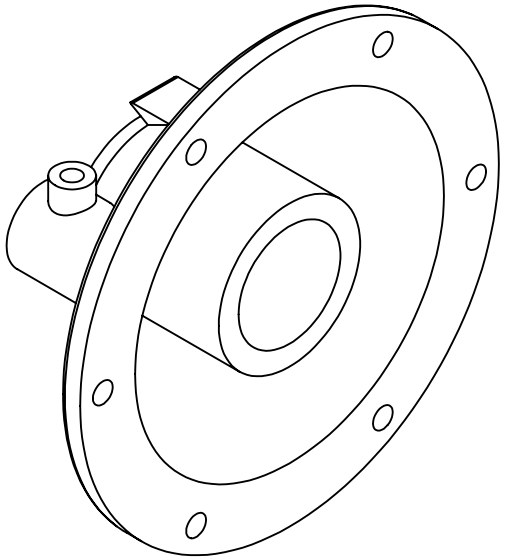
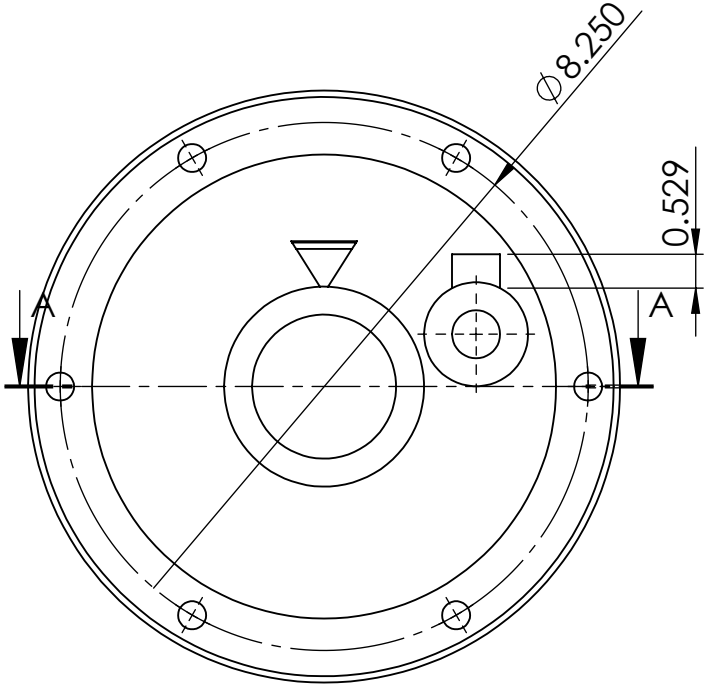
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Front Cover Plate CHECKED BY: DATE: DRAWN BY: Casey Sweeney DATE: 5/4/2011 FILE NAME: 01-03 - Crank Case Cover Plate - Front.SLDPRT	**Odom's Inferno** PART #: 01-03 QTY: 1 SCALE: 1:5 SHEET: 21 OF 23



SECTION A-A





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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron

DEFAULT TOLERANCES:

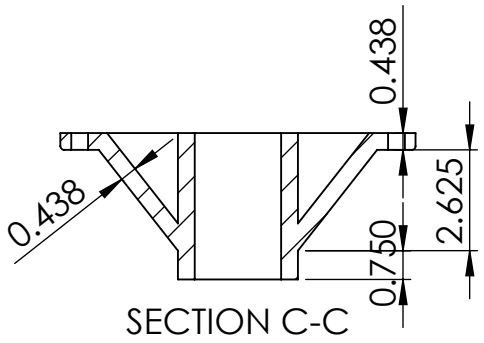
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Front Cover Plate
CHECKED BY: DATE:
DRAWN BY: Casey Sweeney DATE: 5/4/2011
FILE NAME: 01-03 - Crank Case Cover Plate - Front.SLDPRT

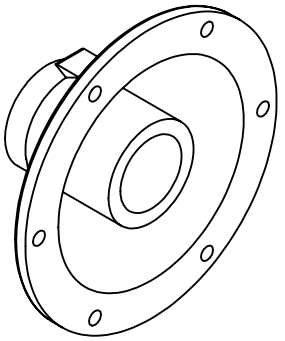
ME301 Spring 2011
Final Project
(The London Genltleman)

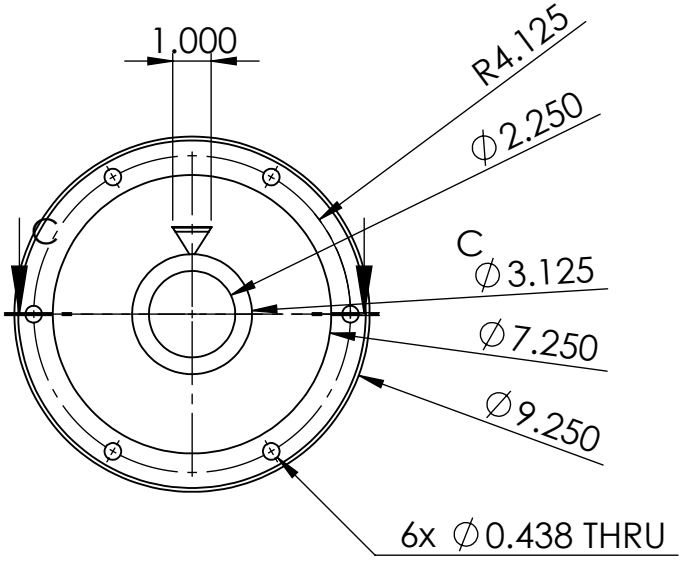
Odom's Inferno

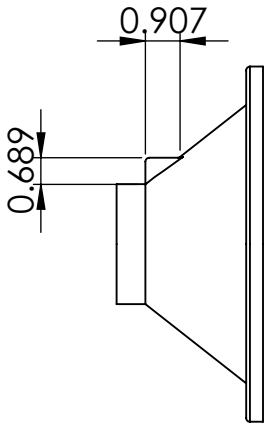
PART #: 01-03 QTY: 1
SCALE: 1:3 SHEET: 22 OF 23



SECTION C-C







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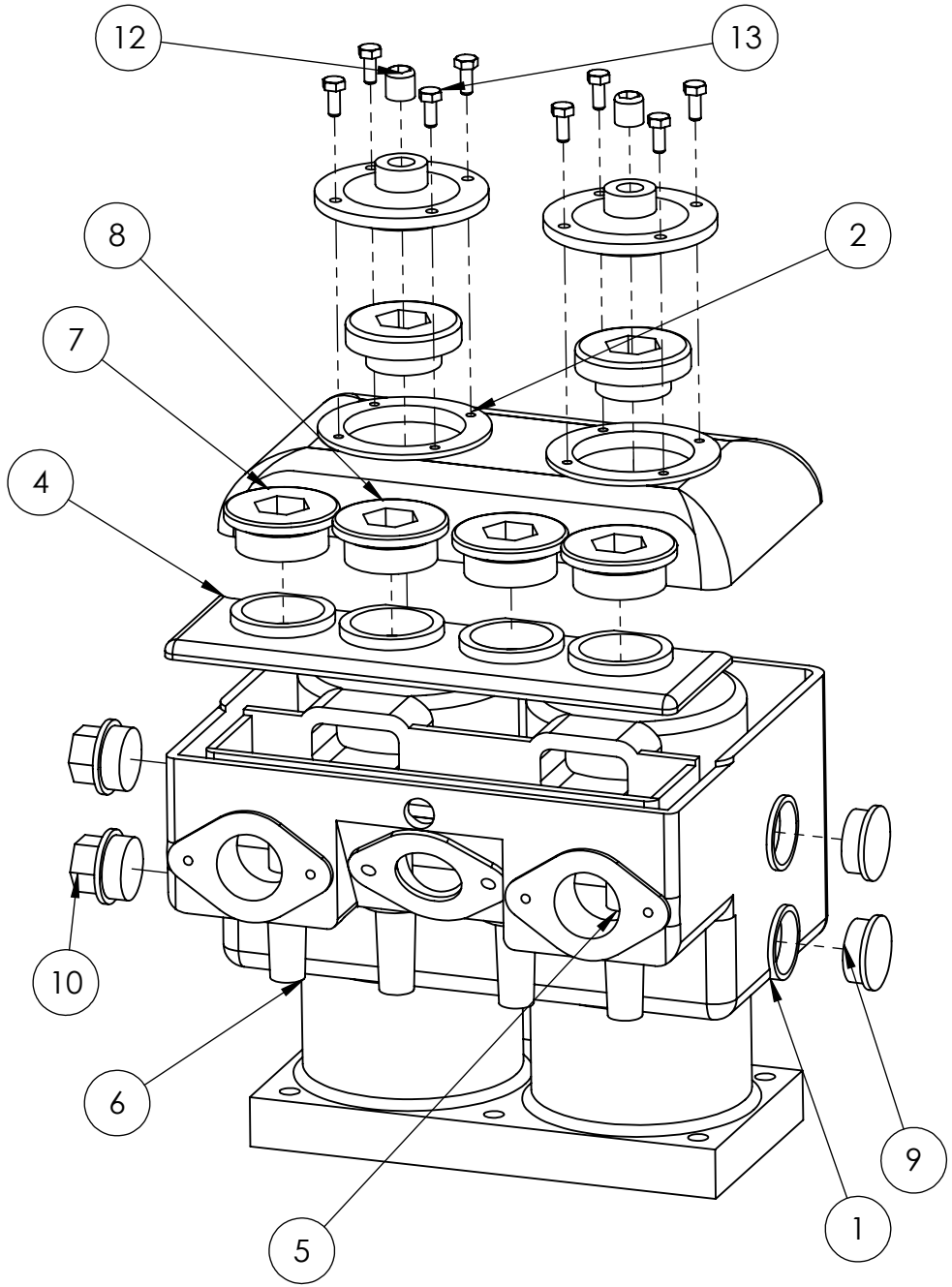
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Rear Cover Plate CHECKED BY: DATE: DRAWN BY: Casey Sweeney DATE: 5/4/2011 FILE NAME: 01-04 - Crank Case Cover Plate - Back.SLDPRT	**Odom's Inferno** PART #: 01-04 QTY: 1 SCALE: 1:5 SHEET: 23 OF 23	



ITEM NO.	PartNo	DESCRIPTION	QTY.	Sheet
1	02-01	Cast Cylinder Head	1	2-6
2	02-02	Top Cylinder Head	1	7
3	02-03	Cylinder Cover Plate	2	8-9
4	02-04	Above Valves Cover	1	10-11
5	02-05	Valve Guide Top	4	12
6	02-06	Valve Guide Bottom	4	13
7	02-07	Valve Cover 1	2	14
8	02-08	Valve Cover 2	2	15
9	02-09	Small Water Plug	2	16
10	02-10	Large Water Plug	2	17
11	02-11	Cylinder Plug	2	18
12	02-12	Cover Plate Plug	2	19
13		HEX BOLT 0.25-20X0.625	8	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Multiple

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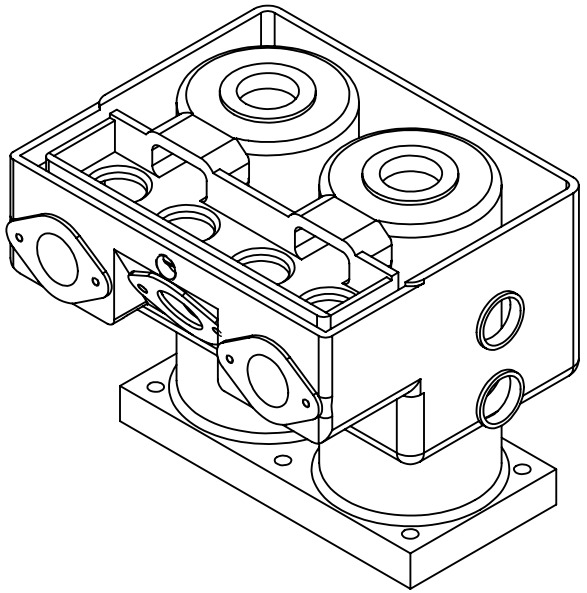
Final Project
(The London Genltleman)

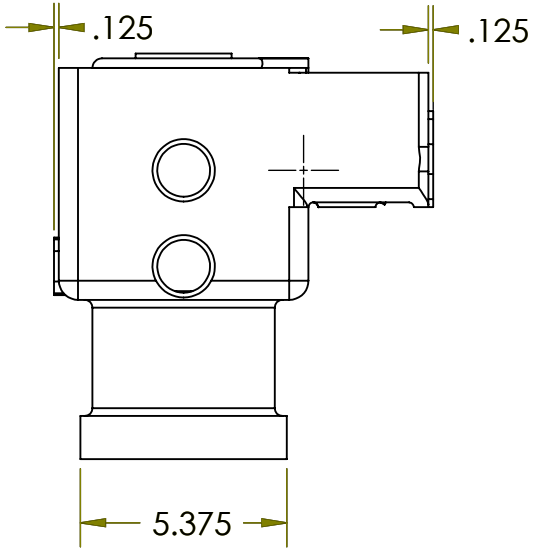
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

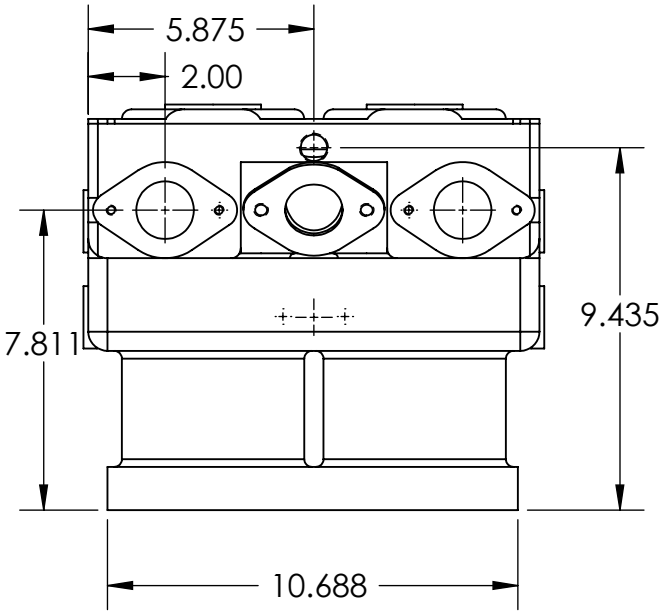
DESCRIPTION: Left Head Assembly
CHECKED BY:
DATE:
DRAWN BY: Jeremy Cuddihy
DATE: 5/5/2011
FILE NAME: 02-00 Left Head Assembly Exploded View.SLDPRT

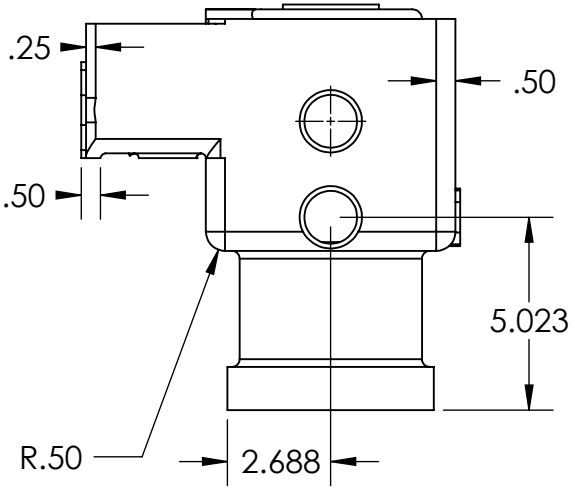
Odom's Inferno

PART #: 02-00
QTY: 1
SCALE: 1:4
SHEET: 1 OF 20









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

ME301 Spring 2011 Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Cast Cylinder Head

CHECKED BY: DATE:

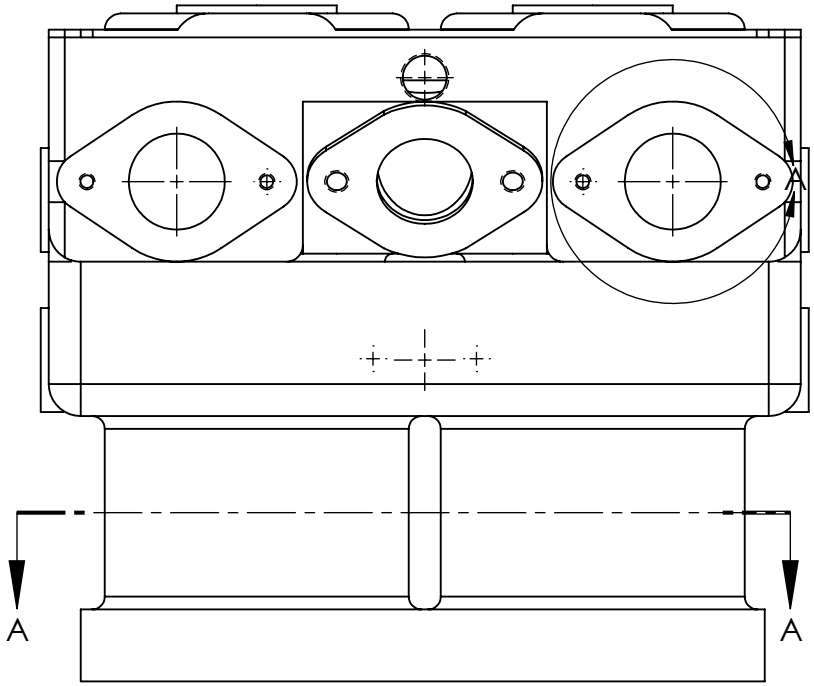
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011

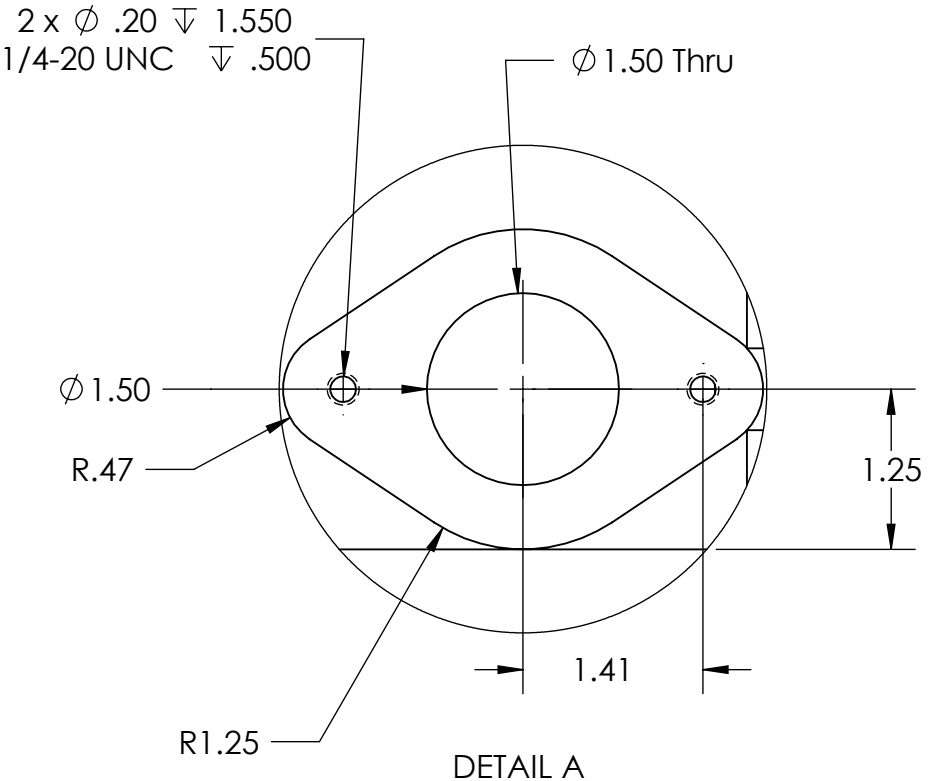
FILE NAME: 02-01 Cast Cylinder Head.SLDPRT

Odom's Inferno

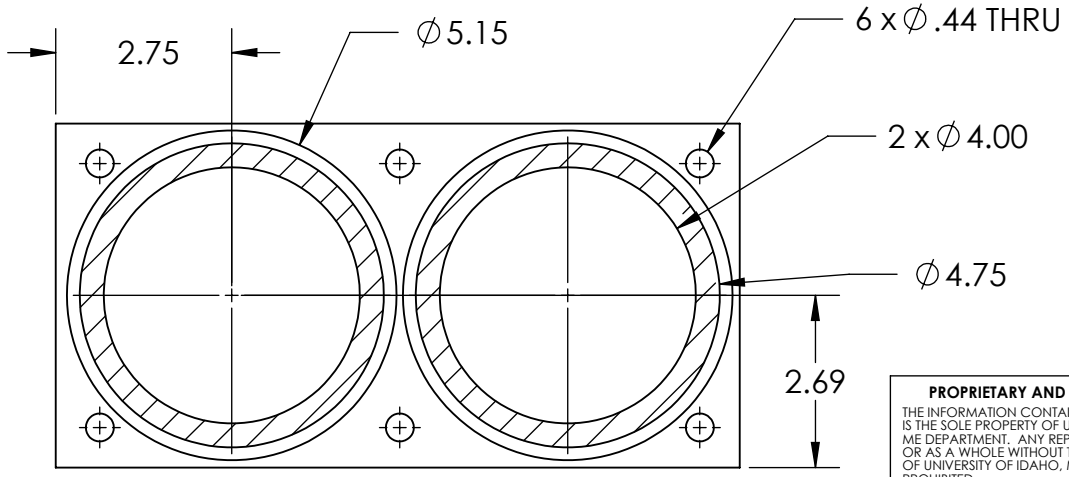
PART #: 02-01 QTY: 2

SCALE: 1:5 SHEET: 2 OF 20





DETAIL A
SCALE 2 : 3



SECTION A-A
SCALE 1 : 3

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Cast Cylinder Head
CHECKED BY:
DATE:
DRAWN BY: Jeremy Cuddihy
DATE: 4/27/2011
FILE NAME: 02-01 Cast Cylinder Head.SLDPRT

ME301 Spring 2011
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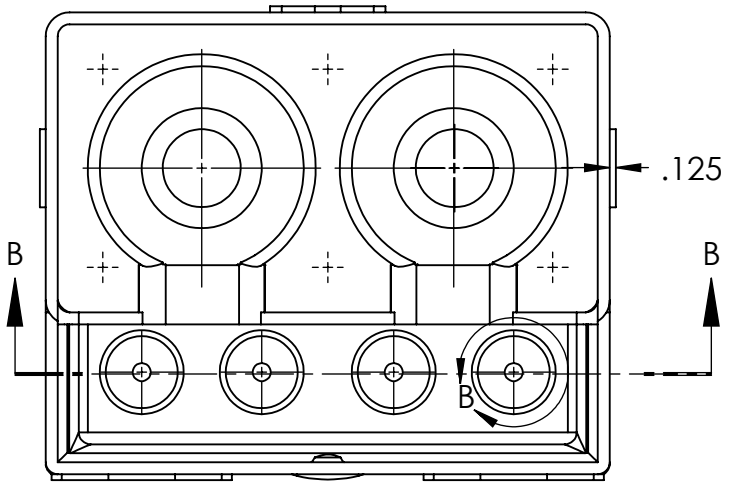
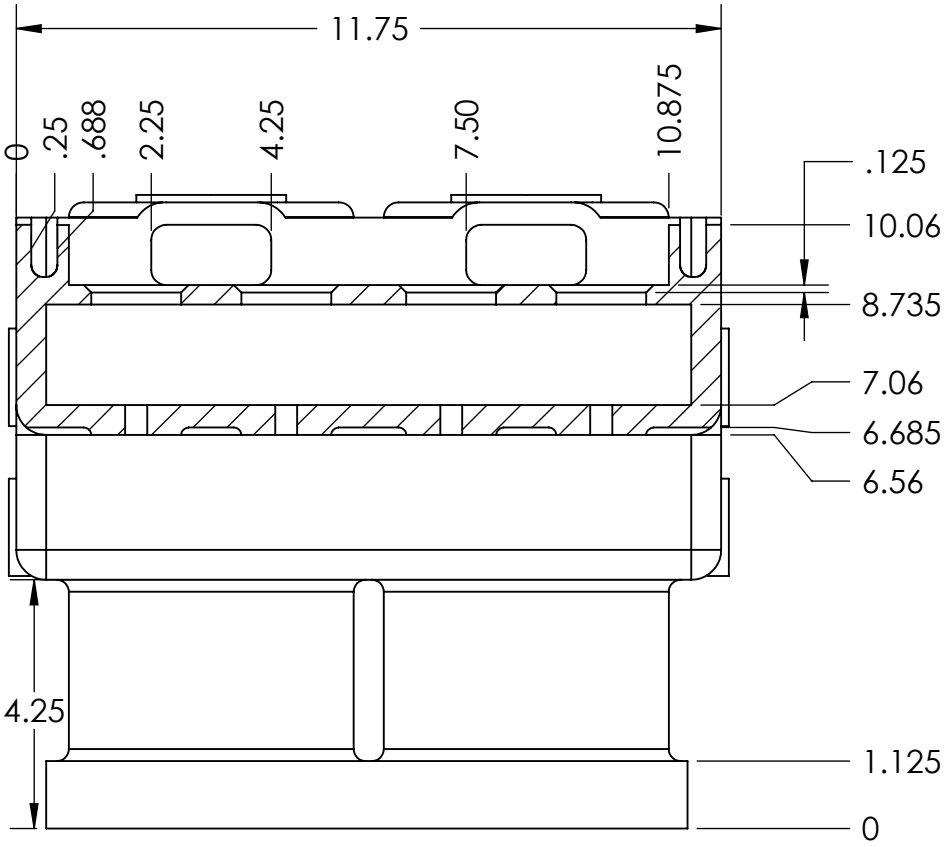
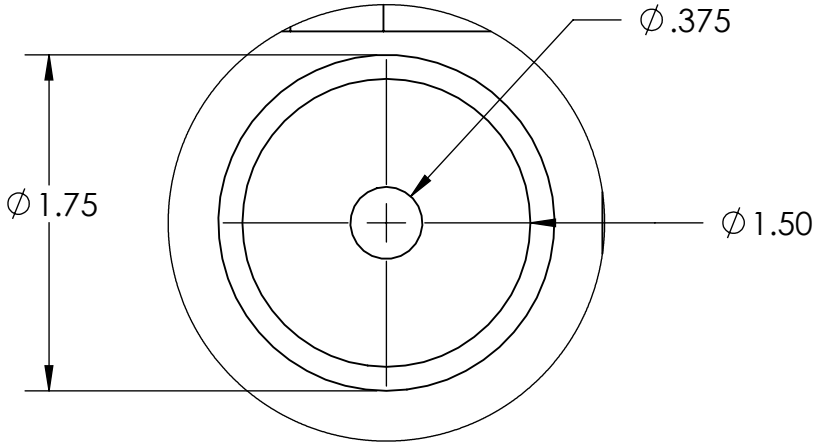
Odom's Inferno

PART #: 02-01
QTY: 2
SCALE: 1:5
SHEET: 3 OF 20





SECTION B-B
SCALE 1 : 3.2



DETAIL B
SCALE 1 : 1

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

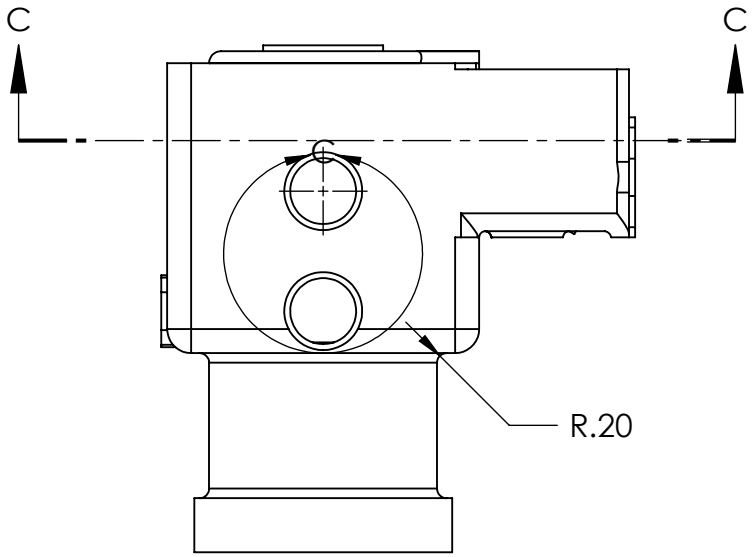
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

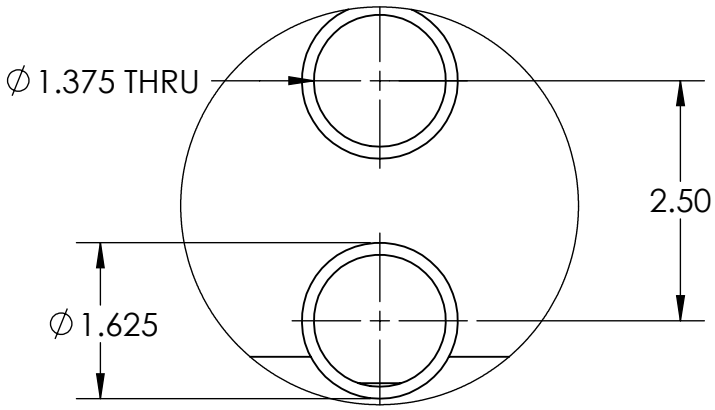
DESCRIPTION: Cast Cylinder Head
CHECKED BY:
DATE:
DRAWN BY: Jeremy Cuddihy
DATE: 4/27/2011
FILE NAME: 02-01 Cast Cylinder Head.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

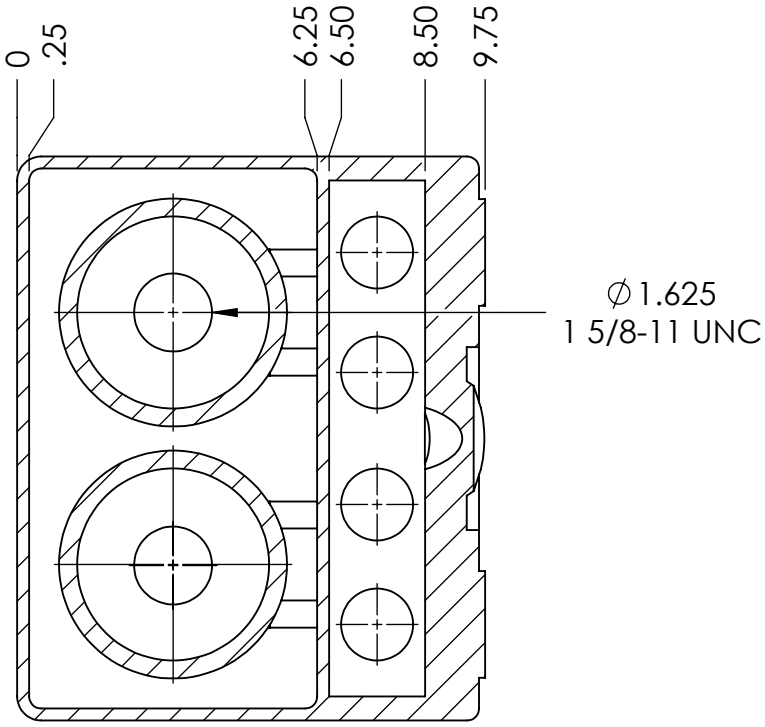
Odom's Inferno

PART #: 02-01
QTY: 2
SCALE: 1:5
SHEET: 4 OF 20





DETAIL C
SCALE 1 : 2



SECTION C-C
SCALE 1 : 4

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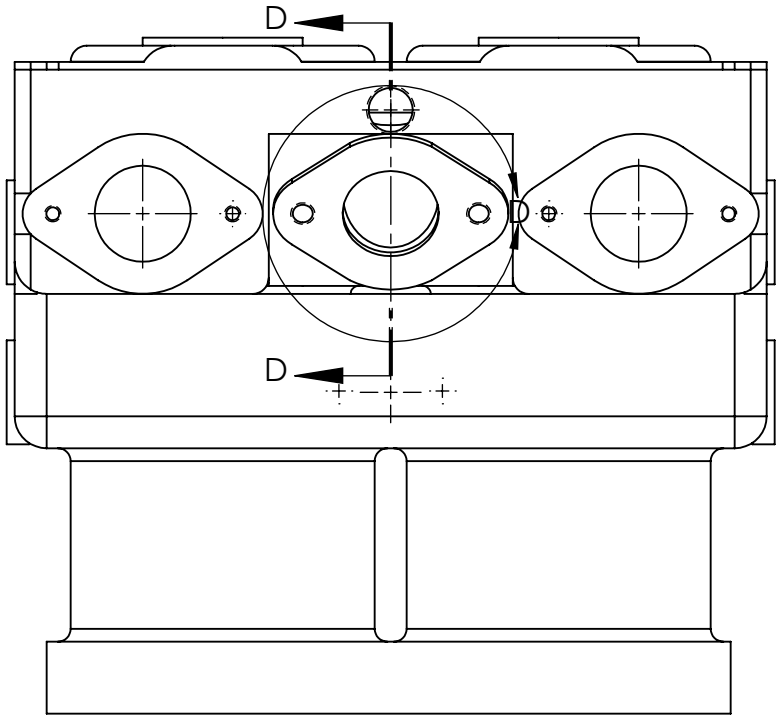
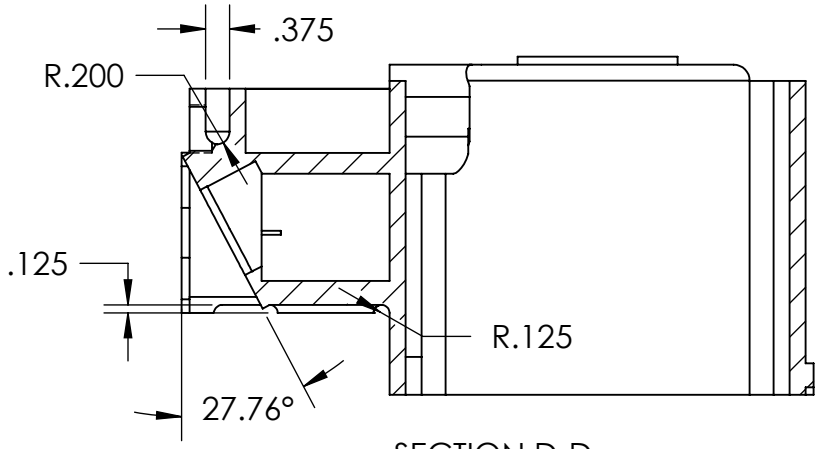
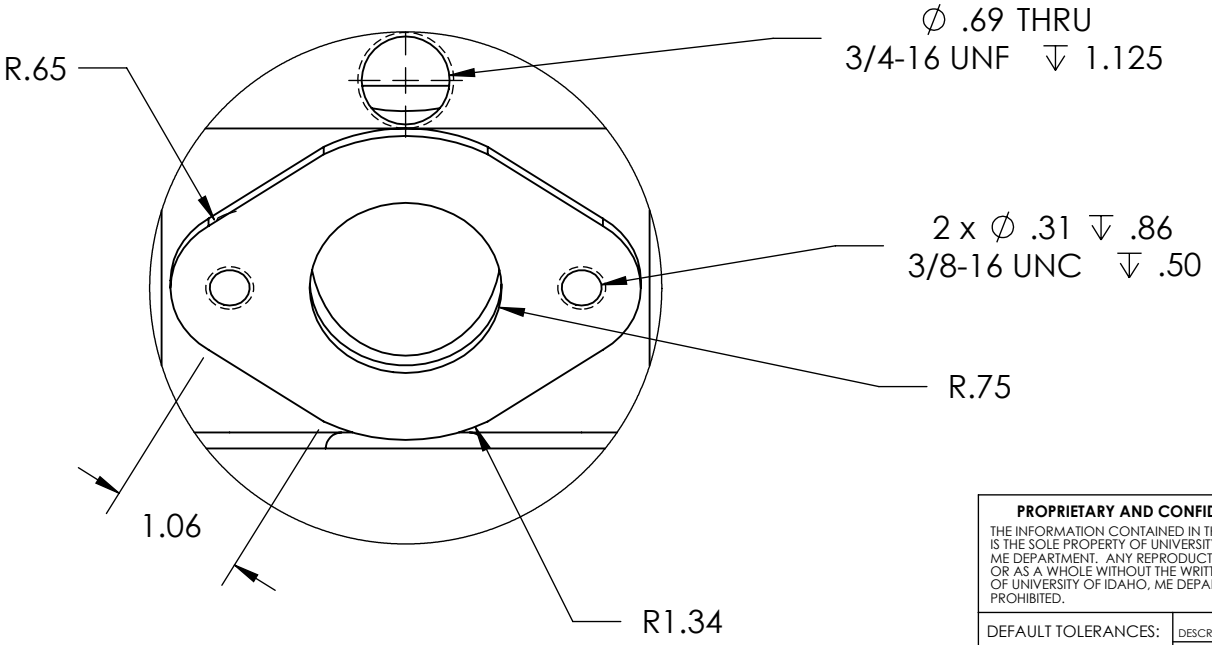
	MATERIAL: Gray Cast Iron (SN)		
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Cast Cylinder Head		**Odom's Inferno**
	CHECKED BY:	DATE:	
	DRAWN BY: Jeremy Cuddihy	DATE: 4/27/2011	PART #: 02-01 / QTY: 2
	FILE NAME: 02-01 Cast Cylinder Head.SLDPRT		SCALE: 1:5 / SHEET: 5 OF 20





SECTION D-D
SCALE 1 : 3



DETAIL D
SCALE 2 : 3

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

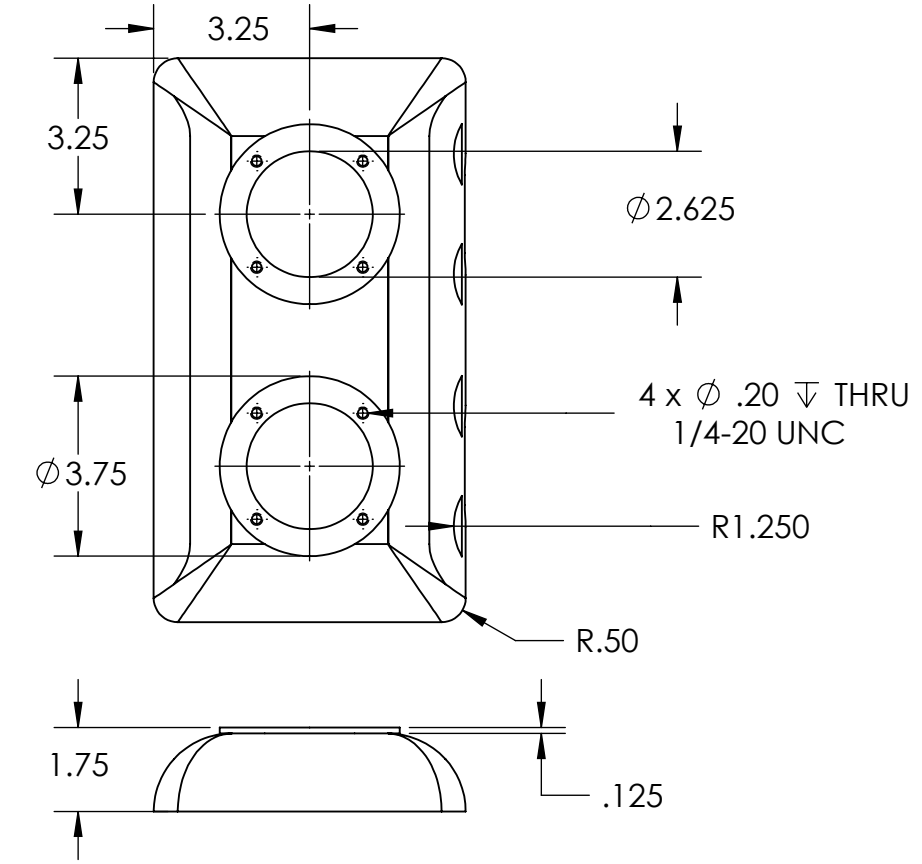
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

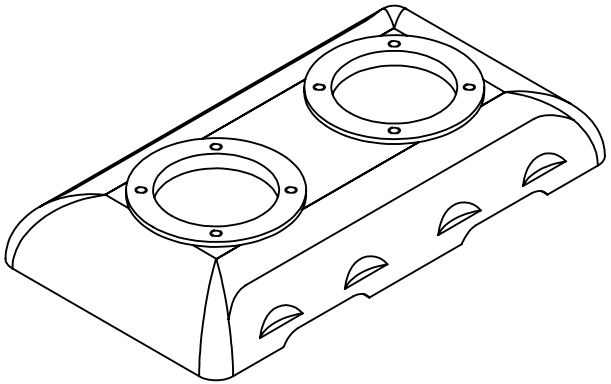
DESCRIPTION: Cast Cylinder Head
CHECKED BY:
DATE:
DRAWN BY: Jeremy Cuddihy
DATE: 4/27/2011
FILE NAME: 02-01 Cast Cylinder Head.SLDPRT

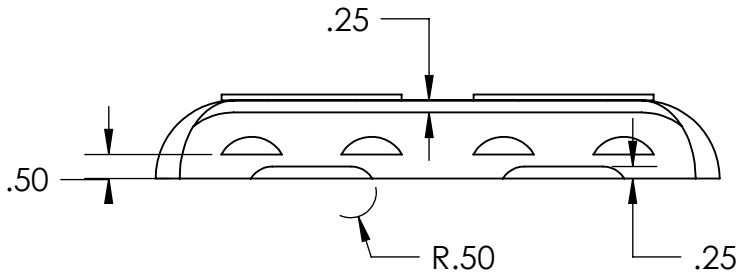
ME301 Spring 2011
Final Project
(The London Genltleman)

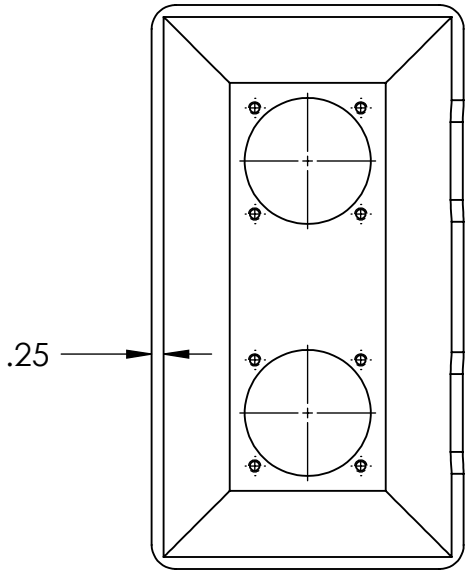
Odom's Inferno

PART #: 02-01
QTY: 2
SCALE: 1:5
SHEET: 6 OF 20









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

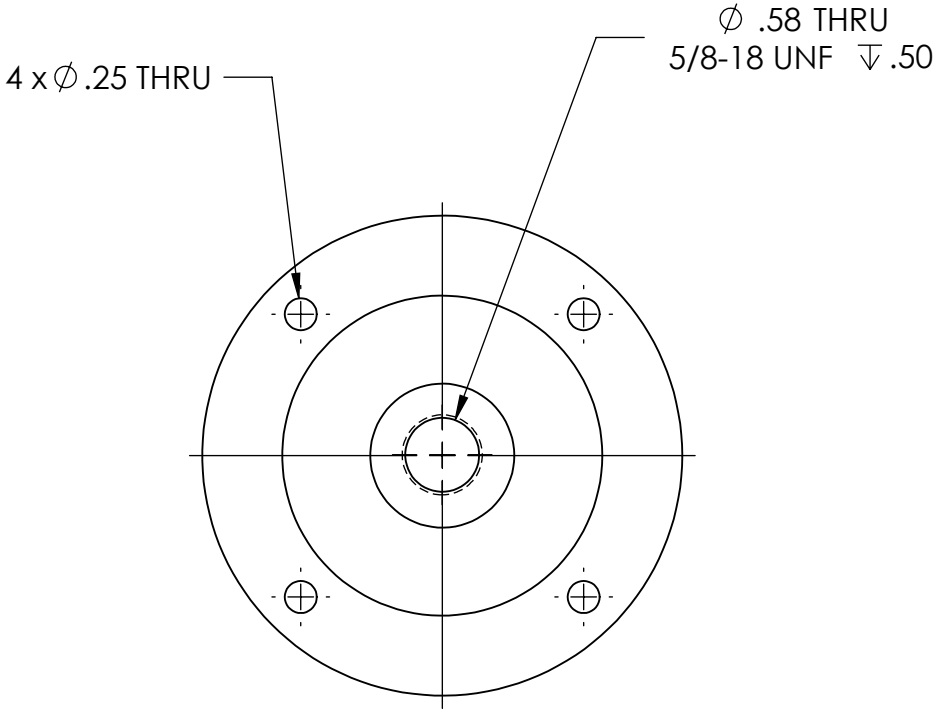
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

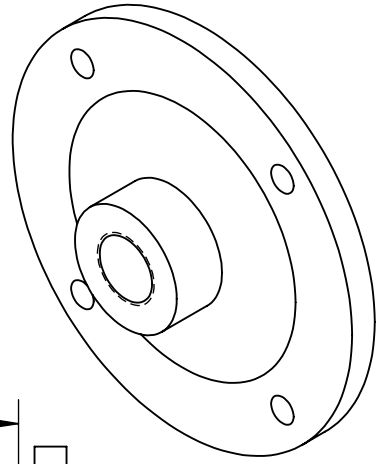
DESCRIPTION: Top Cylinder Head
CHECKED BY:
DATE:
DRAWN BY: Jeremy Cuddihy
DATE: 4/26/2011
FILE NAME: 02-02 Top Of Cylinder Head.SLDPRT

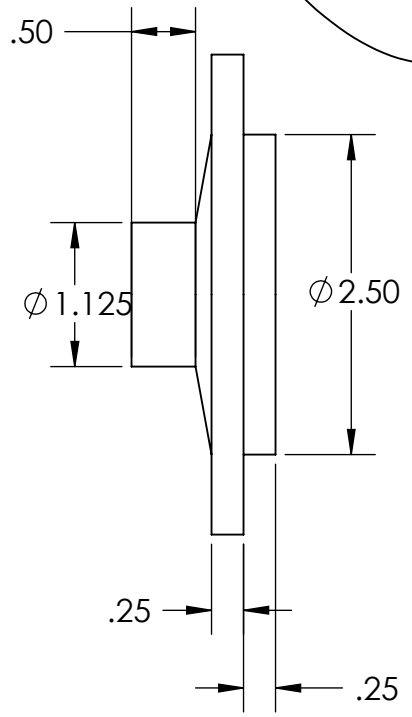
ME301 Spring 2011
Final Project
(The London Genltleman)

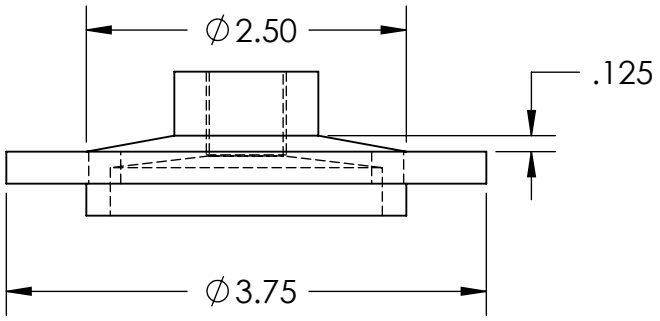
Odom's Inferno

PART #: 02-02
QTY: 2
SCALE: 1:5
SHEET: 7 OF 20









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 6061 Alloy

DEFAULT TOLERANCES:

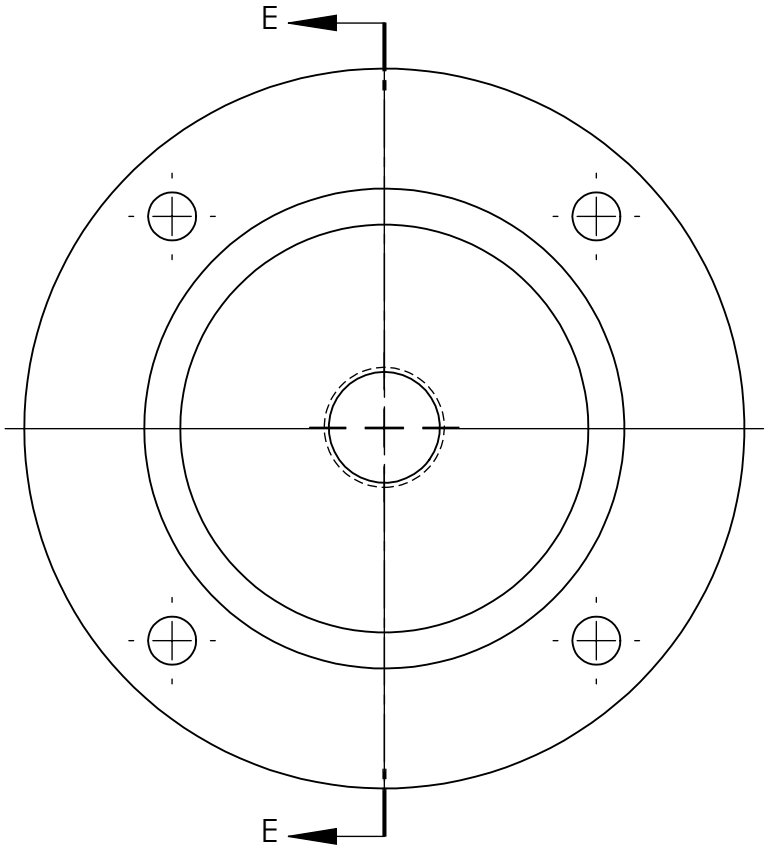
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

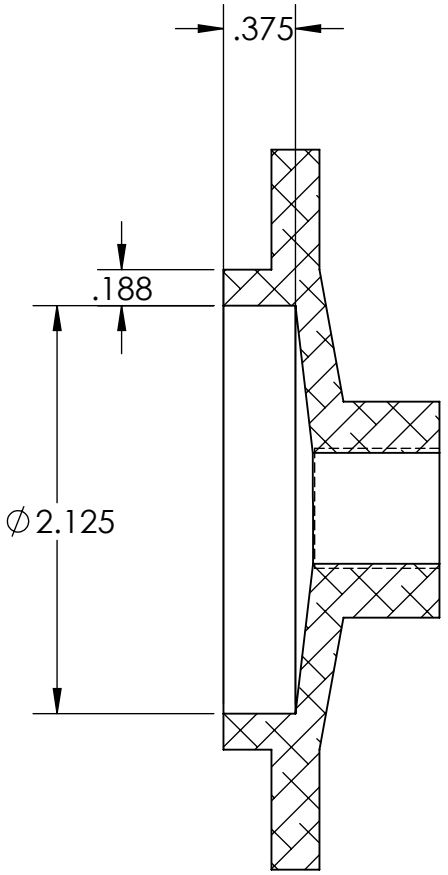
DESCRIPTION: Cylinder Cover Plate
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-03 Cylinder Cover Plate.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 02-03 QTY: 4
SCALE: 1:2 SHEET: 8 OF 20





SECTION E-E
SCALE 1 : 1

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 6061 Alloy

DEFAULT TOLERANCES:

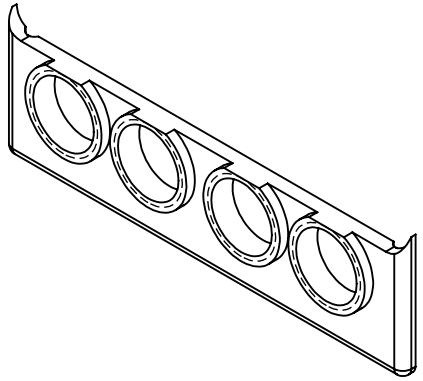
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

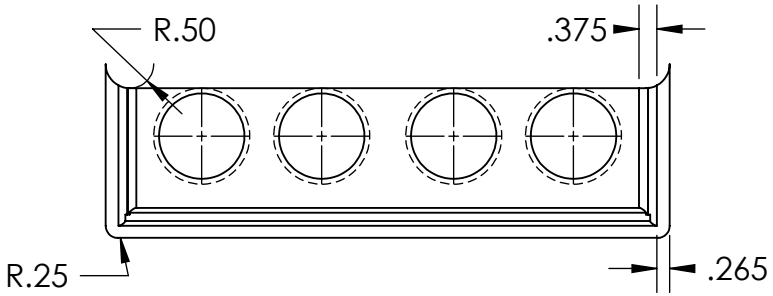
DESCRIPTION: Cylinder Cover Plate
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-03 Cylinder Cover Plate.SLDPRT

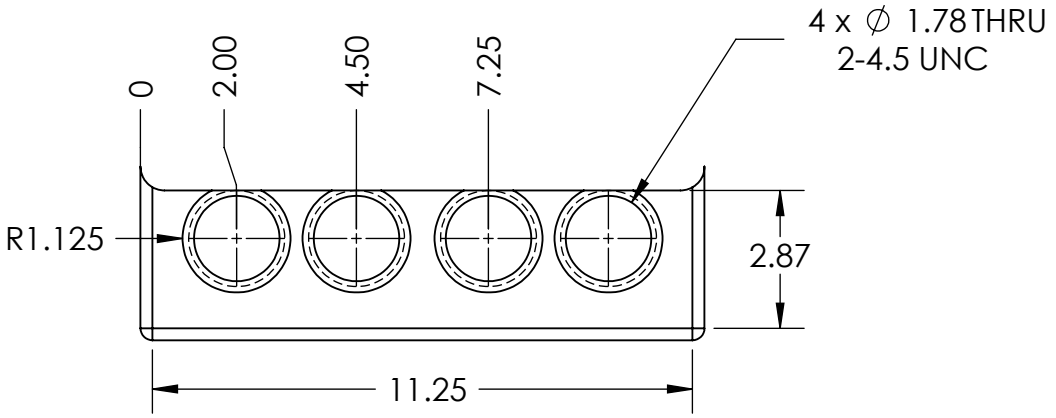
ME301 Spring 2011
Final Project
(The London Genltleman)

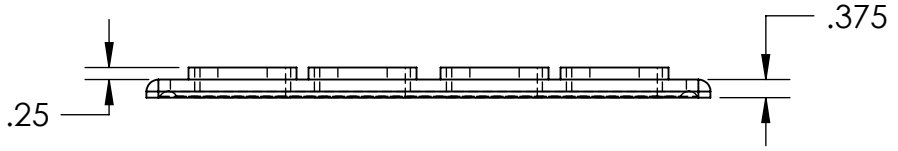
Odom's Inferno

PART #: 02-03 QTY: 4
SCALE: 1:2 SHEET: 9 OF 20









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

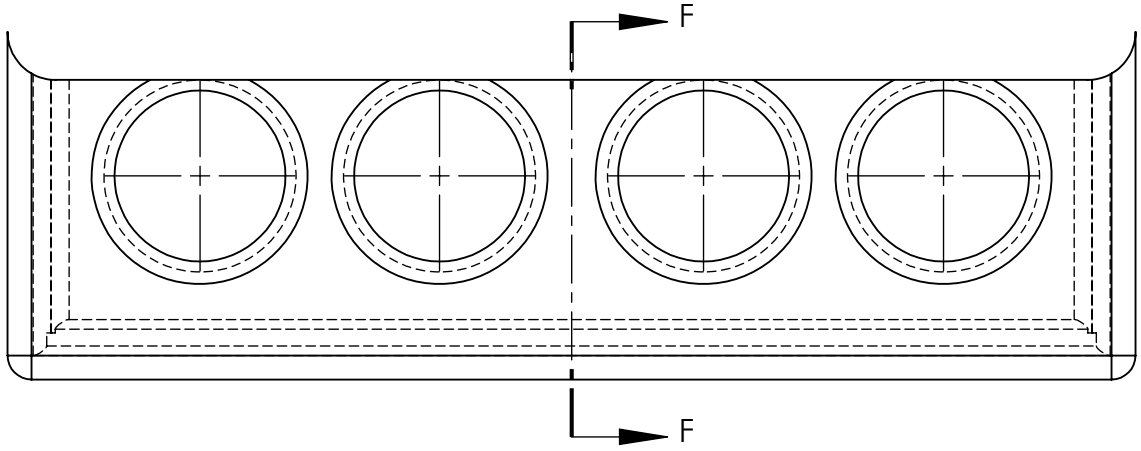
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

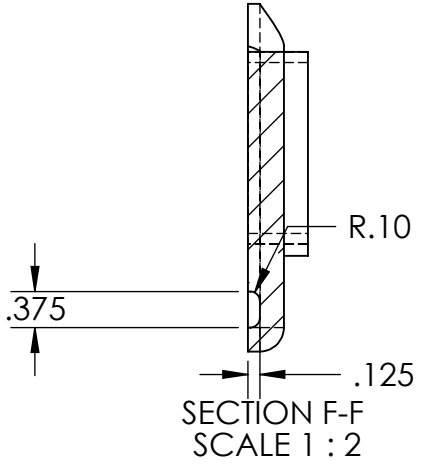
DESCRIPTION: Above Valves Cover
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-04 Above Valves Cover.SLDPRT

ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 02-04 QTY: 2
SCALE: 1:5 SHEET: 10 OF 20





SECTION F-F
SCALE 1 : 2

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Above Valves Cover
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-04 Above Valves Cover.SLDPRT

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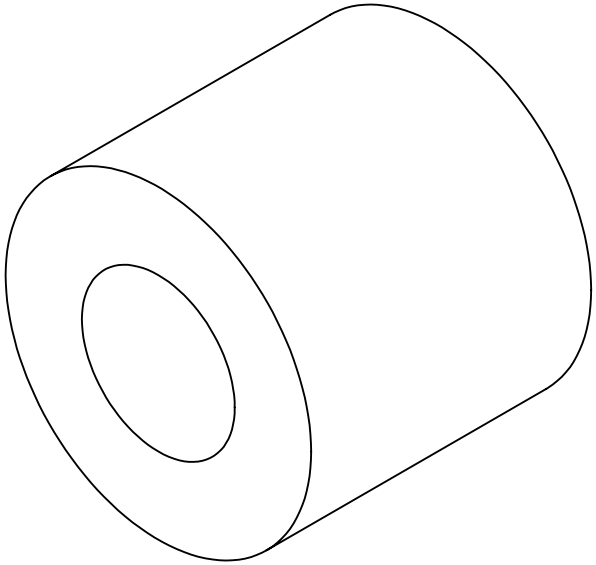
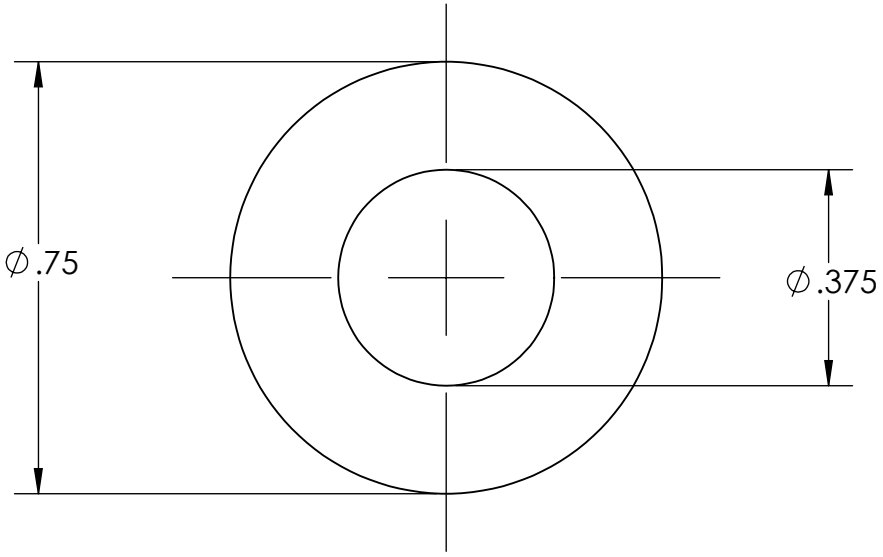
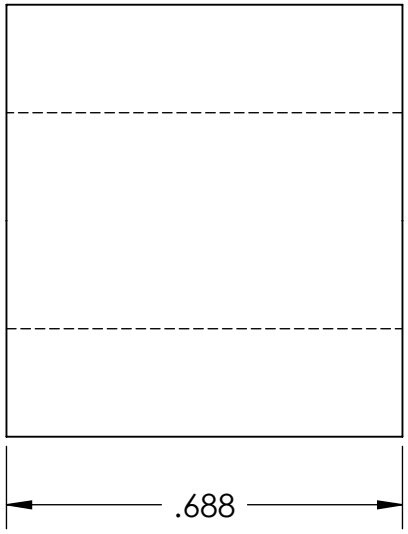
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 02-04 QTY: 2
SCALE: 1:5 SHEET: 11 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Valve Guide Top
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-05 Valve Guide Top.SLDPRT

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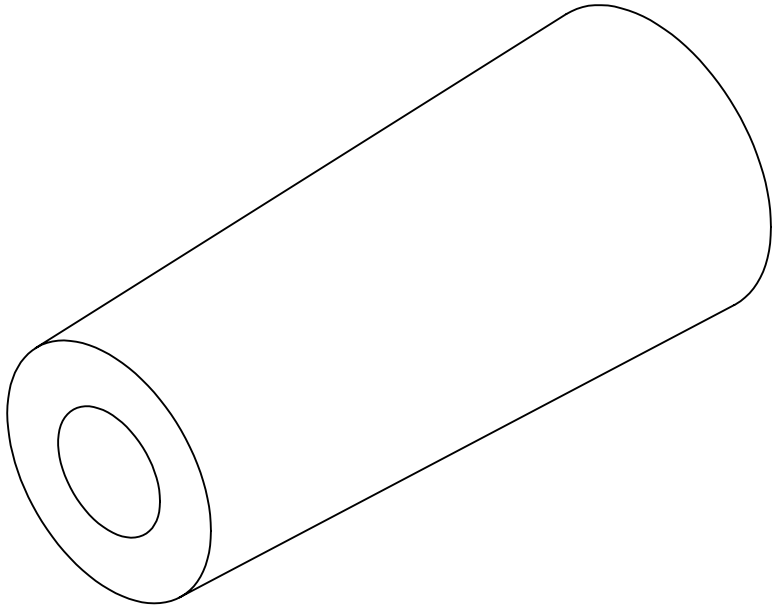
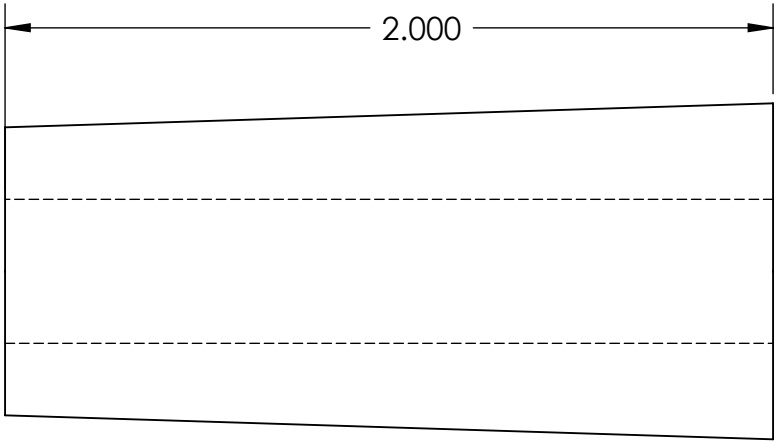
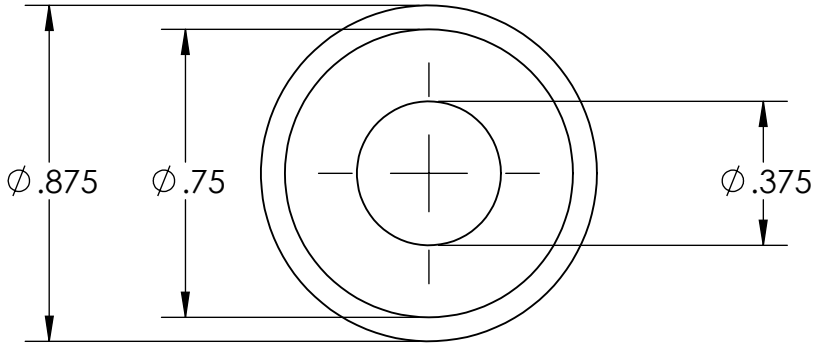
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 02-05 QTY: 8
SCALE: 1:1 SHEET: 12 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron (SN)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Valve Guide Bottom
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-06 Valve Guide Bottom.SLDPRT

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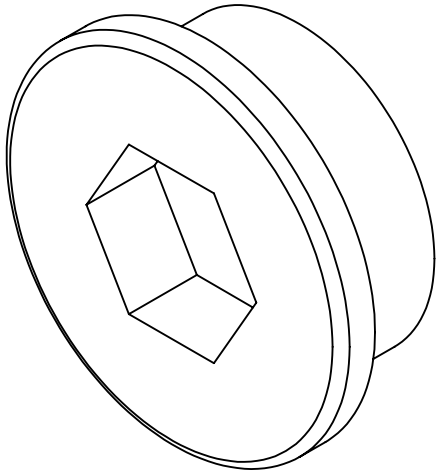
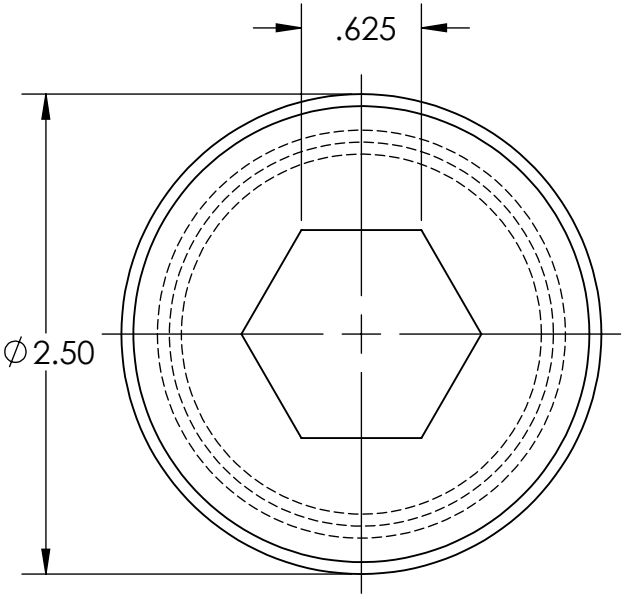
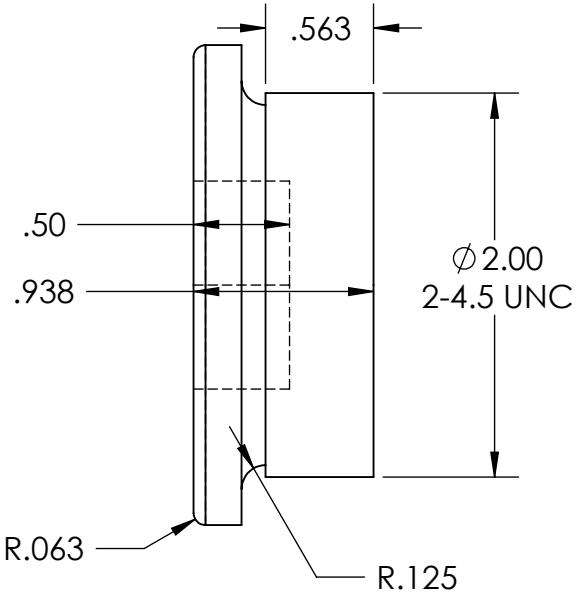
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 02-06 QTY: 8
SCALE: 1:1 SHEET: 13 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 6061 Alloy

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Final Project
(The London Genltleman)

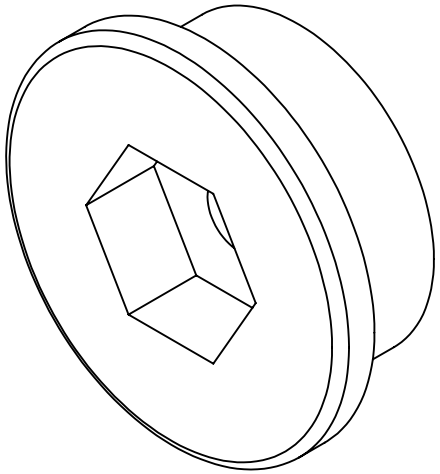
DEFAULT TOLERANCES:

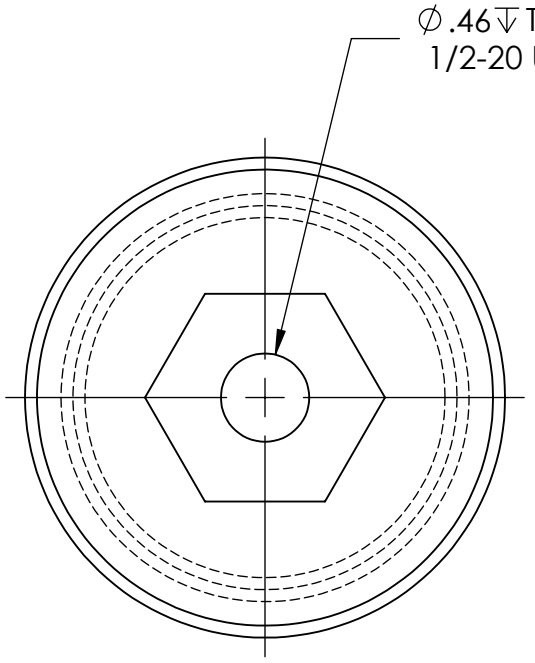
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

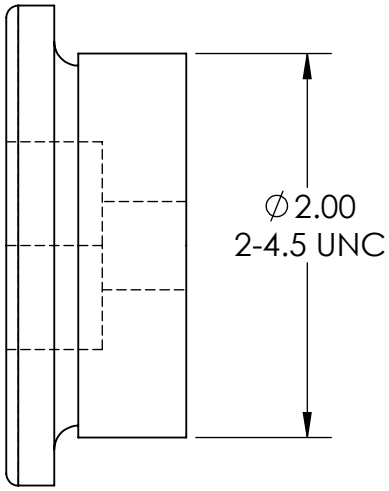
DESCRIPTION: Valve Cover 1
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-07 Valve Cover 1.SLDPRT

Odom's Inferno

PART #: 02-07 QTY: 4
SCALE: 1:1 SHEET: 14 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 6061 Alloy

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Valve Cover 2

CHECKED BY: DATE:

DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011

FILE NAME: 02-08 Valve Cover 2.SLDPRT

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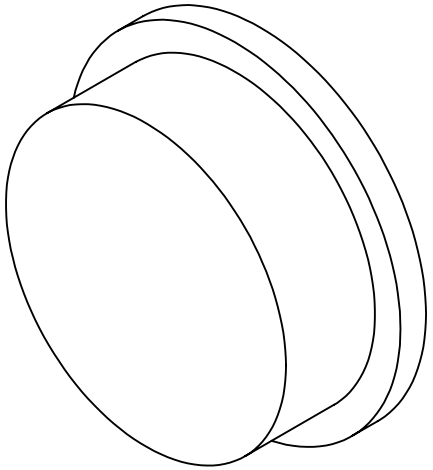
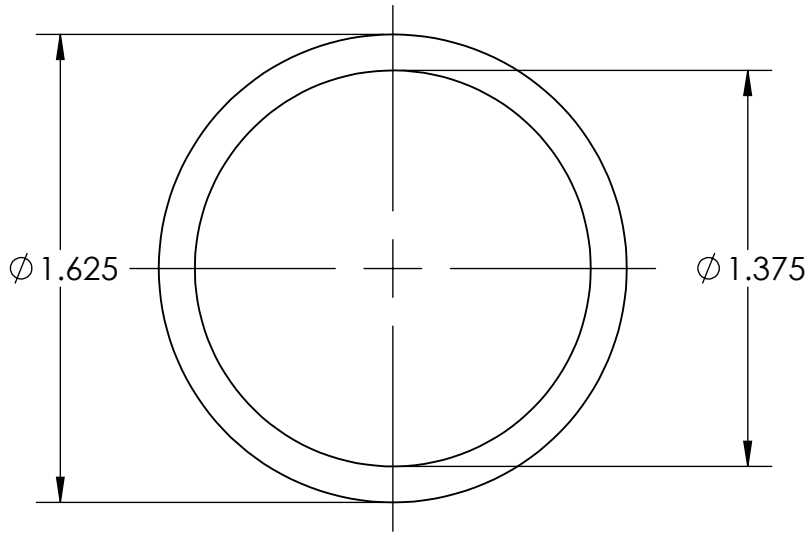
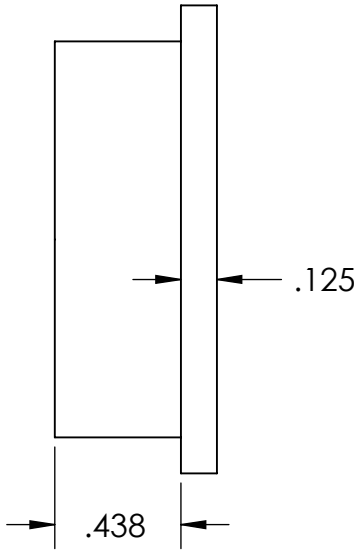
PART #: 02-08 QTY: 4

SCALE: 1:1 SHEET: 15 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Brass

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Small Water Plug
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-09 Small Water Plug.SLDPRT

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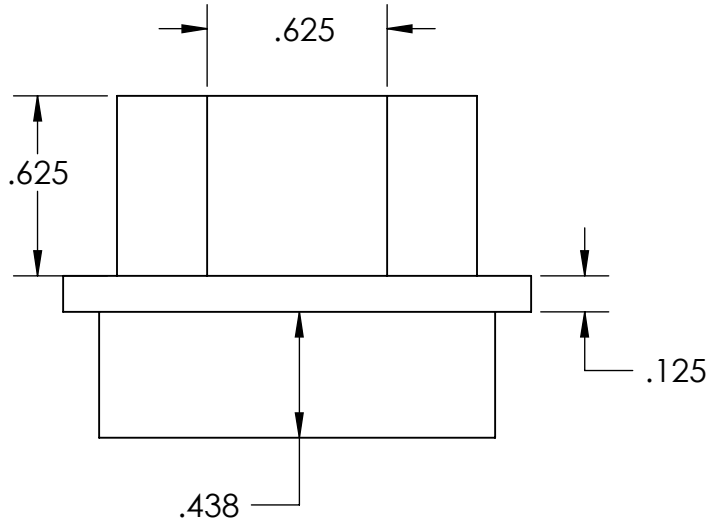
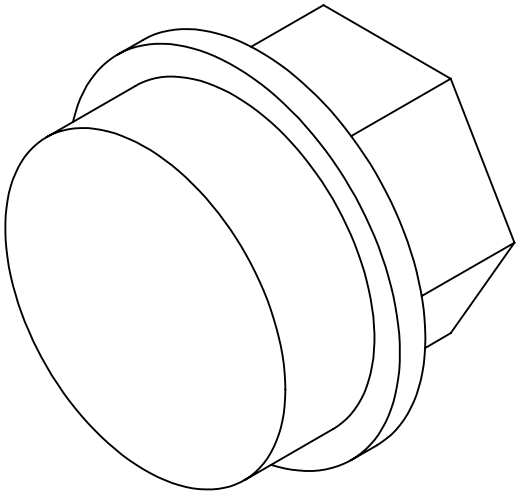
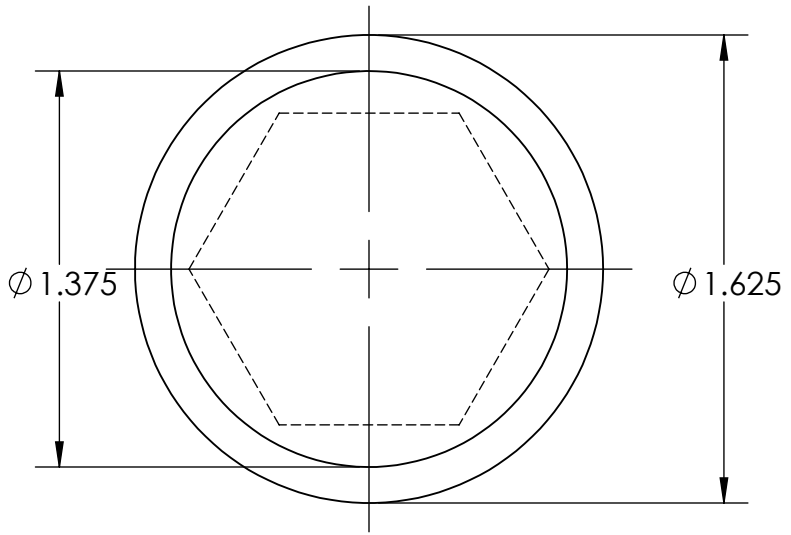
PART #: 02-09 QTY: 4
SCALE: 1:1 SHEET: 16 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Brass

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Large Water Plug
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-10Large Water Plug.SLDPRT

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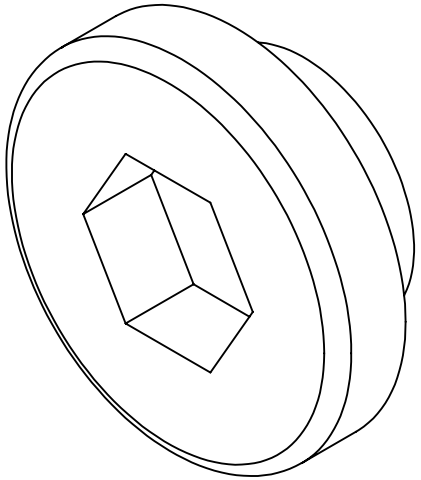
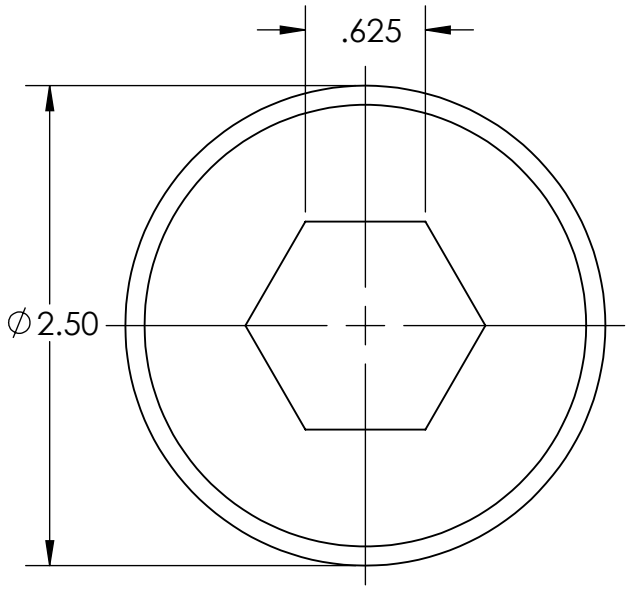
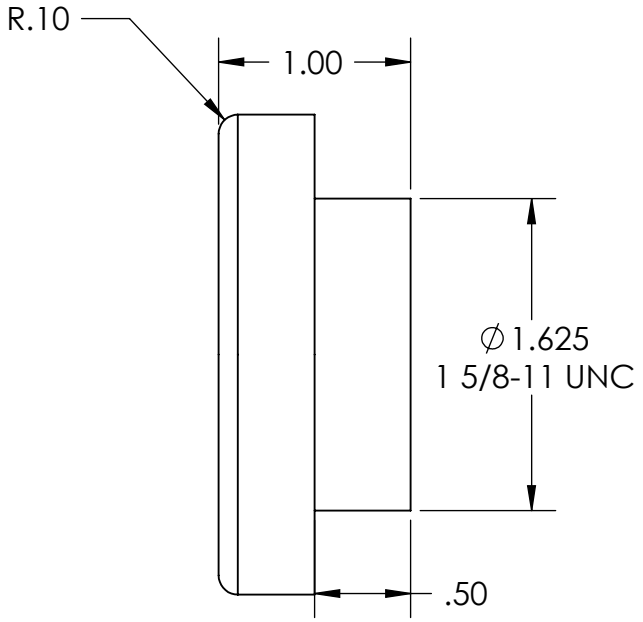
PART #: 02-10 QTY: 4
SCALE: 1:1 SHEET: 17 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Free-Cutting Brass, UNS C36000

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Cylinder Plug

CHECKED BY: DATE:

DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011

FILE NAME: 02-11 Cylinder Plug.SLDPRT

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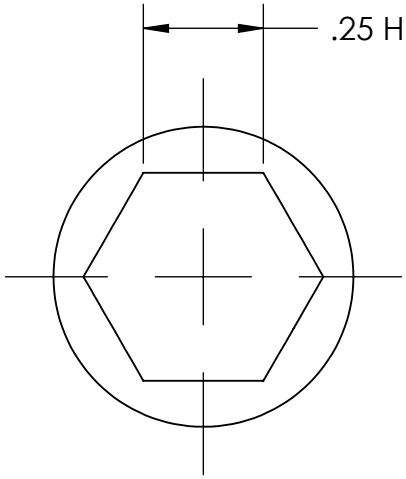
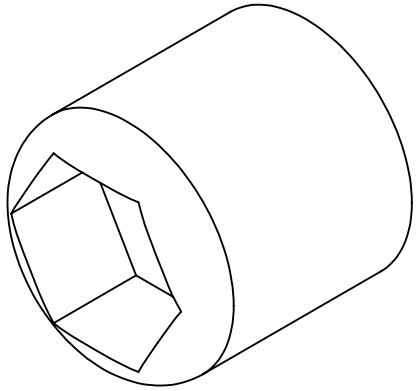
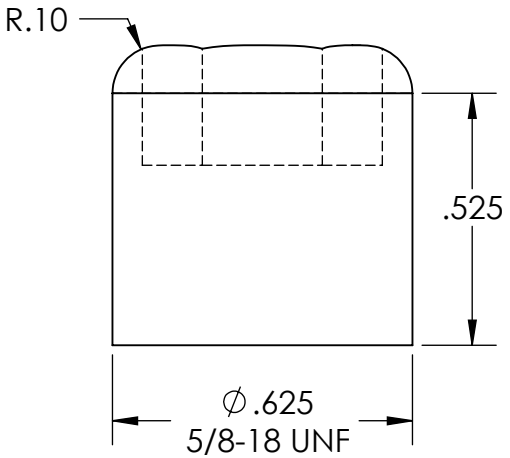
PART #: 02-11 QTY: 4

SCALE: 1:1 SHEET: 18 OF 20







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Free-Cutting Brass, UNS C36000

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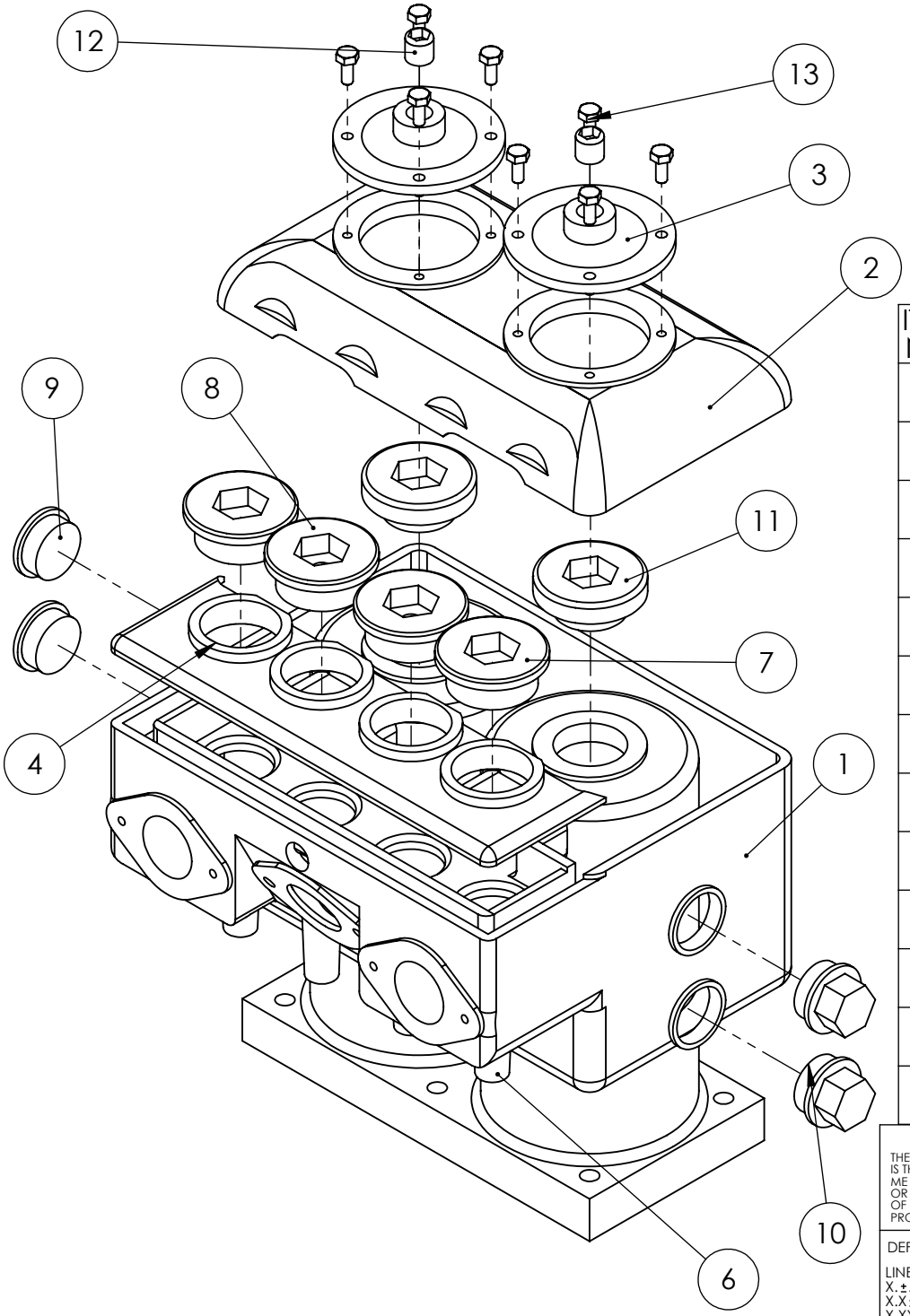
DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Cover Plate Plug
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/26/2011
FILE NAME: 02-12 Cover Plate Plug.SLDPRT

Odom's Inferno

PART #: 02-12 QTY: 4
SCALE: 2:1 SHEET: 19 OF 20



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	Sheet
1	02-01	Cast Cylinder Head	1	2-6
2	02-02	Top Cylinder Head	1	7
3	02-03	Cylinder Cover Plate	2	8-9
4	02-04	Above Valves Cover	1	10-11
5	02-05	Valve Guide Top	4	13
6	02-06	Valve Guide Bottom	4	12
7	02-07	Valve Cover 1	2	14
8	02-08	Valve Cover 2	2	15
9	02-09	Small Water Plug	2	16
10	02-10	Large Water Plug	2	17
11	02-11	Cylinder Plug	2	18
12	02-12	Cover Plate Plug	2	19
13	HBOLT 0.2500-20x0.625x0.625-N	HEX BOLT 0.25-20X0.625	8	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Multiple

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Right Head Assembly
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 5/2/2011
FILE NAME: 18-00 Right Head Assembly Exploded View.SLDPRT

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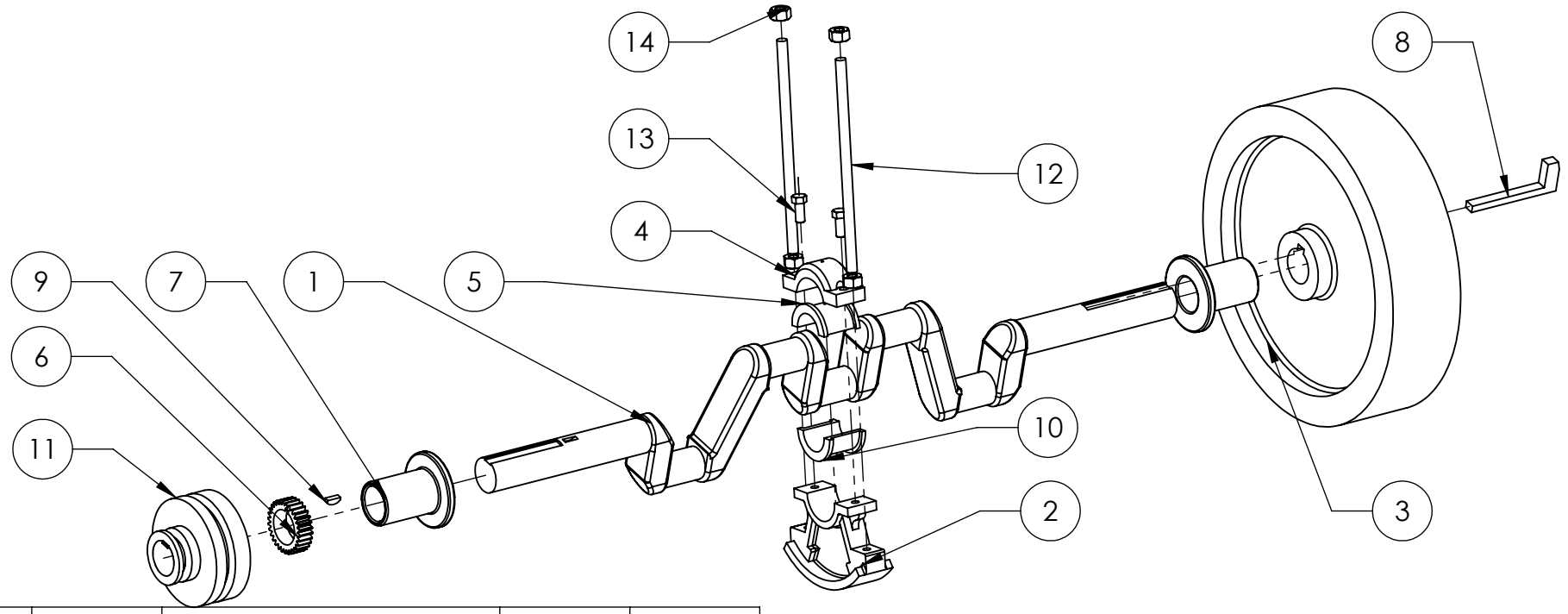
PART #: 18-00 QTY: 1
SCALE: 1:8 SHEET: 20 OF 20



ITEM NO.	PartNo	DESCRIPTION	QTY.	Sheet
1	03-01	Crank Shaft	1	2-3
2	03-02	Center Crank Bearing	1	4
3	03-03	Flywheel	1	5
4	03-04	Center Bracket Top	1	6
5	03-05	Center Bushing Top	1	7
6	03-06	Crank Gear	1	11
7	03-07	Crank Bearing	2	8
8	03-08	Flywheel Key	1	
9	03-09	Woodriff Key	1	
10	03-10	Center Bushing Bottom	1	9
11	03-11	Starting Clutch	1	10
12	03-12	Set Bolts	2	
13		HBOLT 0.4375-20x1x1-N	2	
14		HHNUT 0.5000-20-D-N	4	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Varies

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Crank Assembly
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/4/2011
FILE NAME: 03-00 Crankshaft Assembly.SLDPRT

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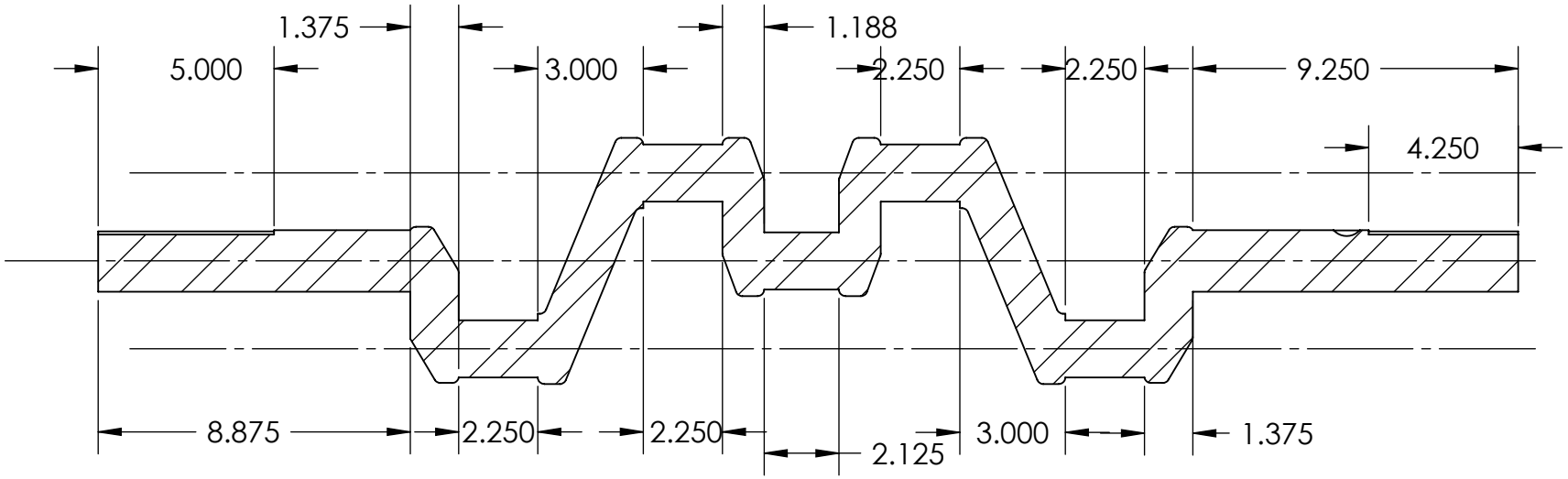
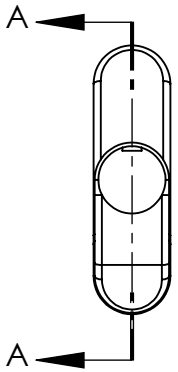
PART #: 03-00
QTY: 01
SCALE: 1:8
SHEET: 1 OF 11



SECTION A-A



NOTE: All Fillets are 0.188in

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Nickel Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Crank Shaft
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/3/2011
FILE NAME: 03-01 Crank Shaft.SLDPRT

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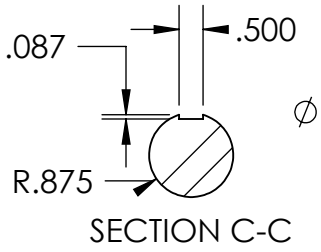
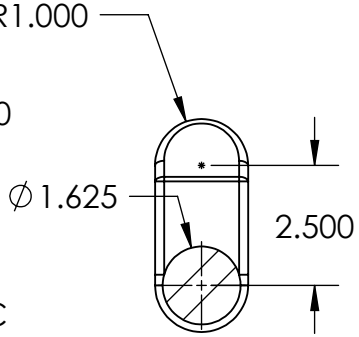
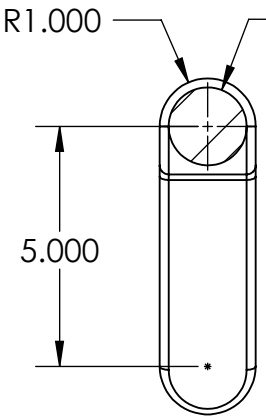
PART #: 03-01
QTY: 01
SCALE: 1:5
SHEET: 2 OF 11



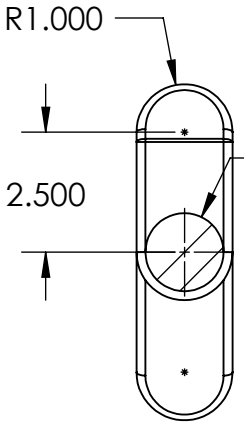
SECTION C-C



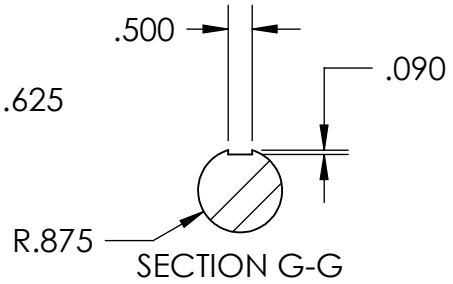
SECTION D-D



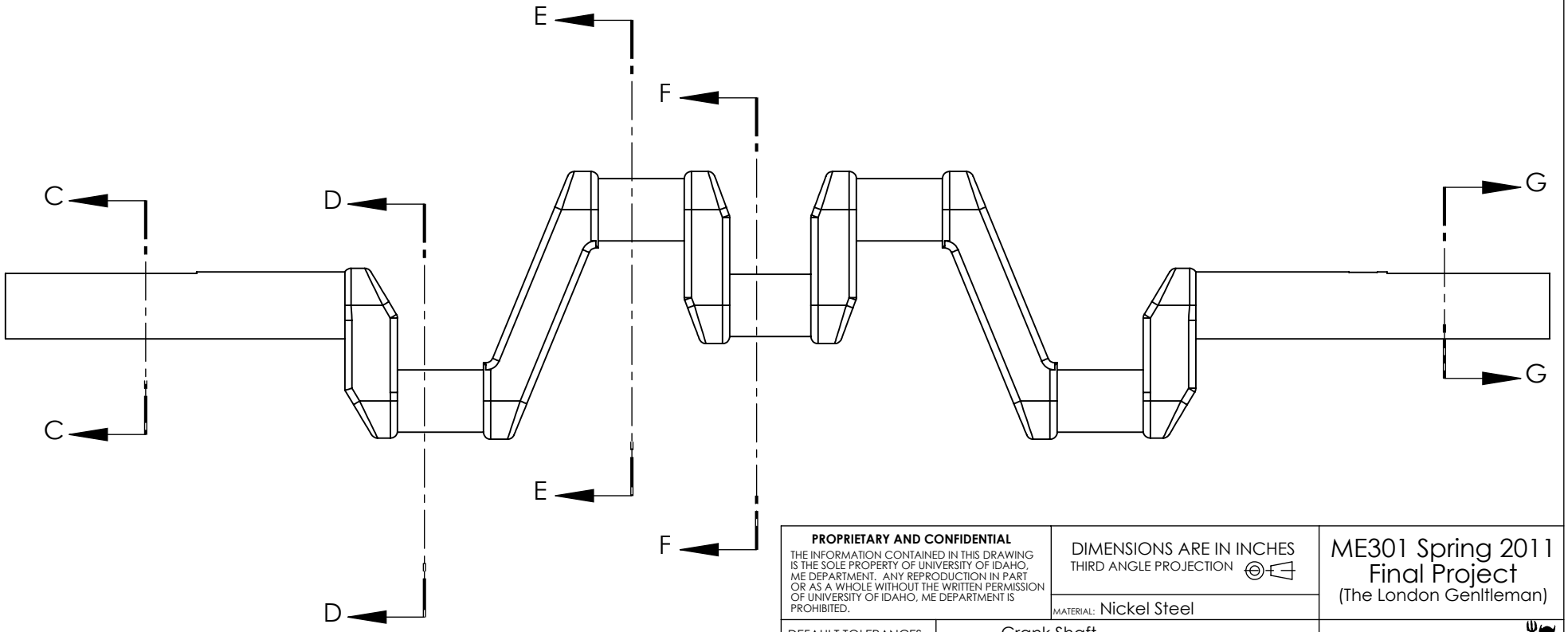
SECTION E-E



SECTION F-F



SECTION G-G



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Nickel Steel

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Crank Shaft
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/3/2011
FILE NAME: 03-01 Crank Shaft.SLDPRT

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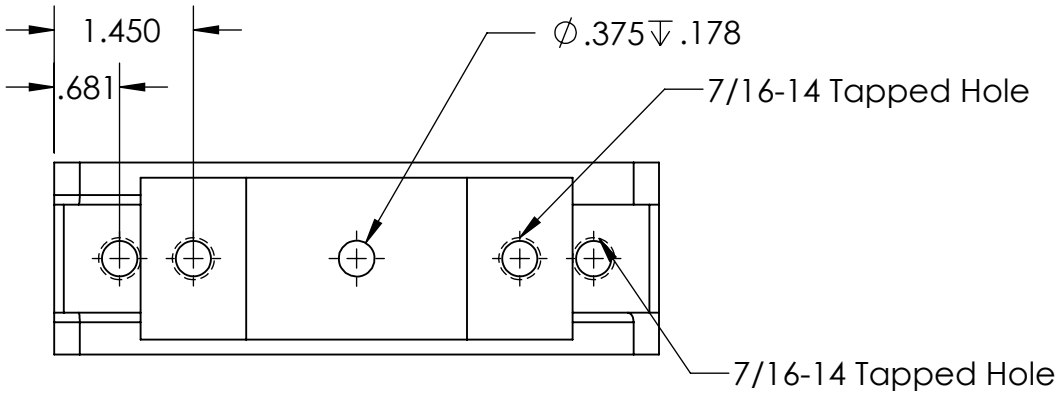
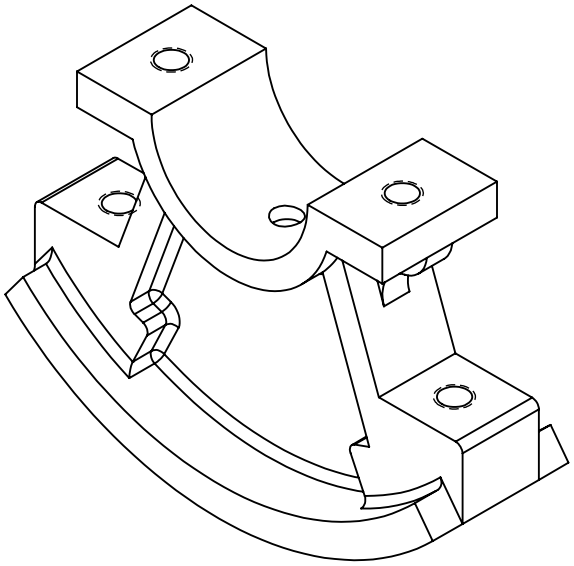
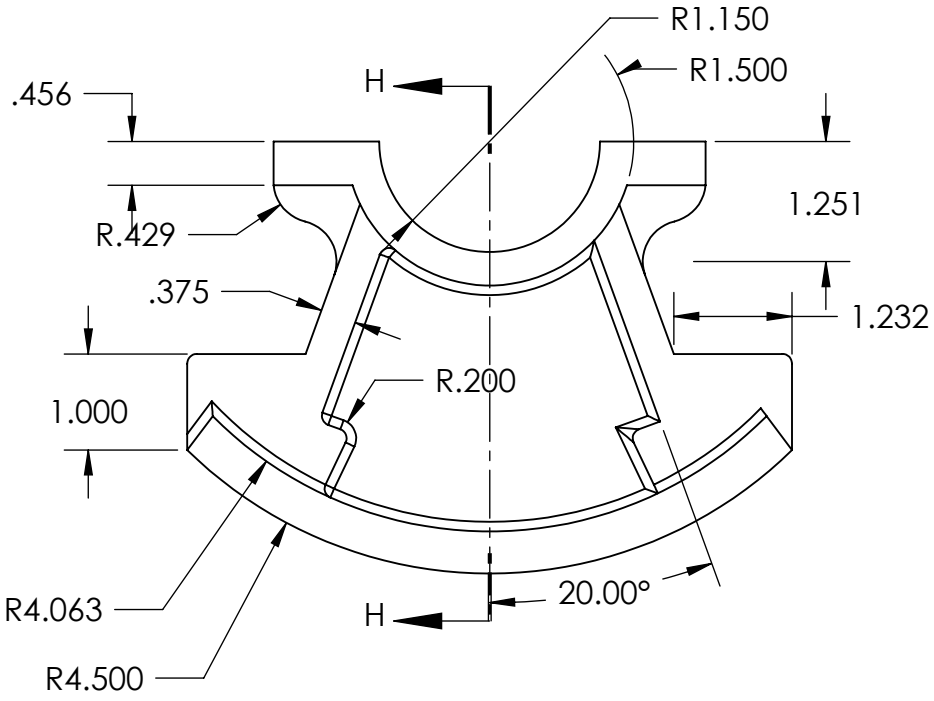
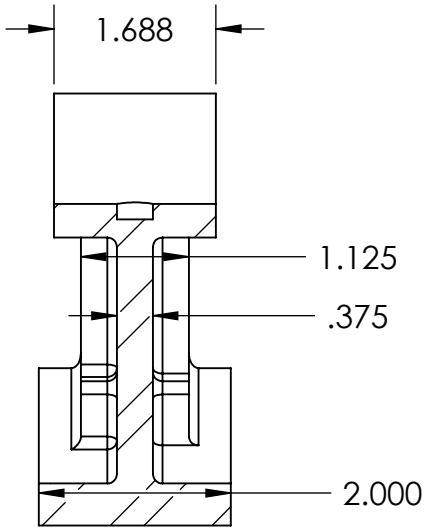
PART #: 03-01
QTY: 01
SCALE: 1:4
SHEET: 3 OF 11









SECTION H-H

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Nickel Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Center Crank Bearing
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-02 Center Crank Bracket.SLDPRT

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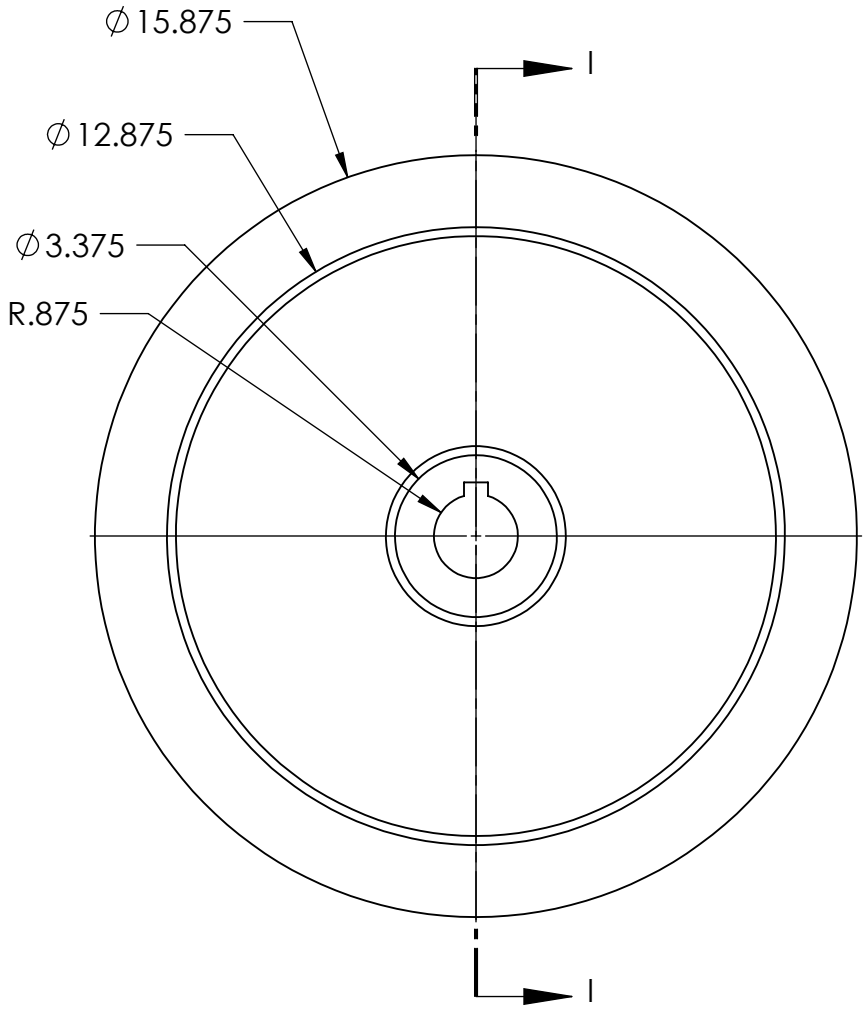
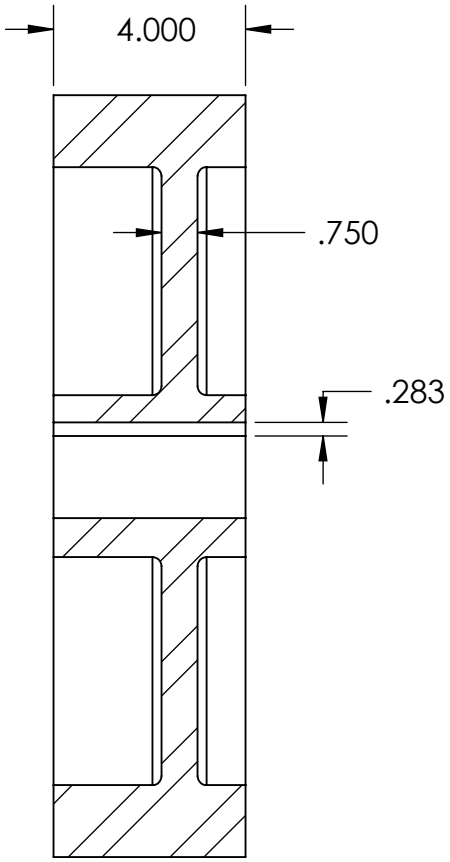
PART #: 03-02 QTY: 01
SCALE: 1:2 SHEET: 4 OF 11





SECTION I-I

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Flywheel

CHECKED BY: DATE:

DRAWN BY: Matthew Kologi DATE: 5/3/2011

FILE NAME: 03-03 Flywheel.SLDPRT

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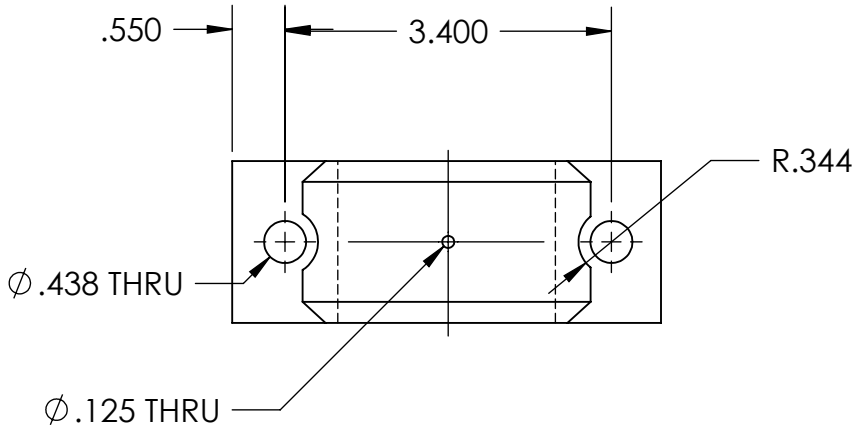
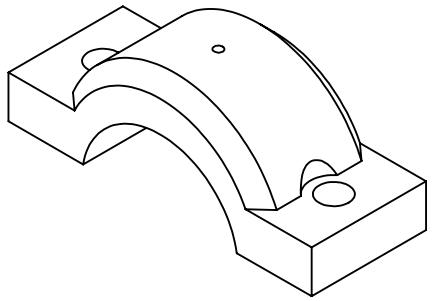
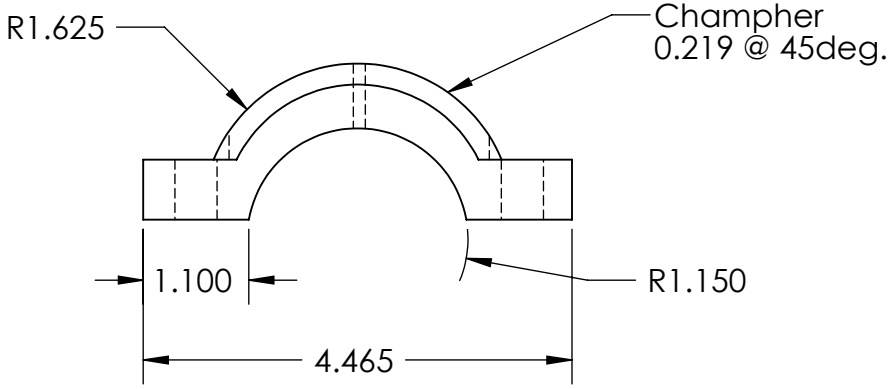
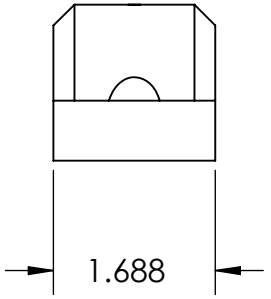
PART #: 03-03 QTY: 01

SCALE: 1:4 SHEET: 5 OF 11









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Nickel Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Center Bracket Top
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-04 Center Bracket Top.SLDPRT

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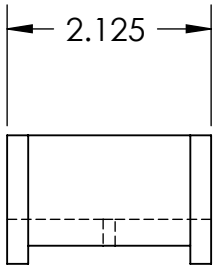
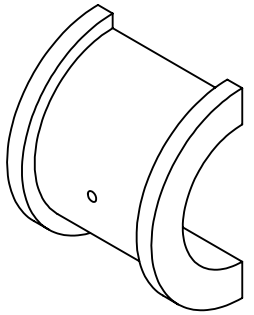
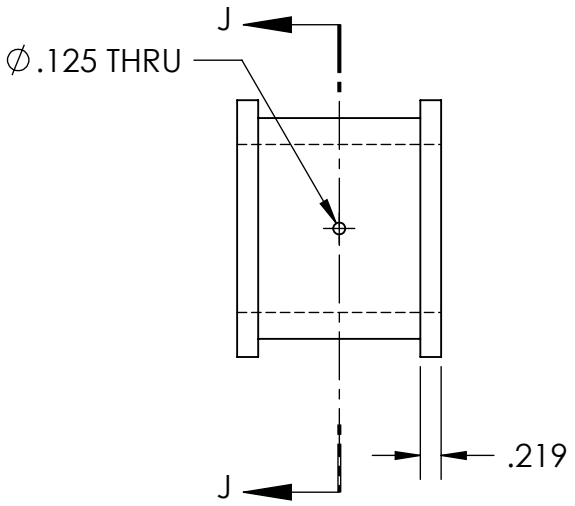
Final Project
(The London Genltleman)

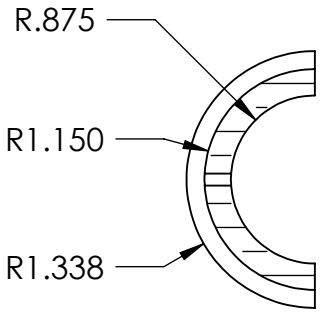
Odom's Inferno

PART #: 03-04 QTY: 01
SCALE: 1:2 SHEET: 6 OF 11









SECTION J-J

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gun Metal

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Center Bushing Top
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-05 Center Bushing Top Half.SLDPRT

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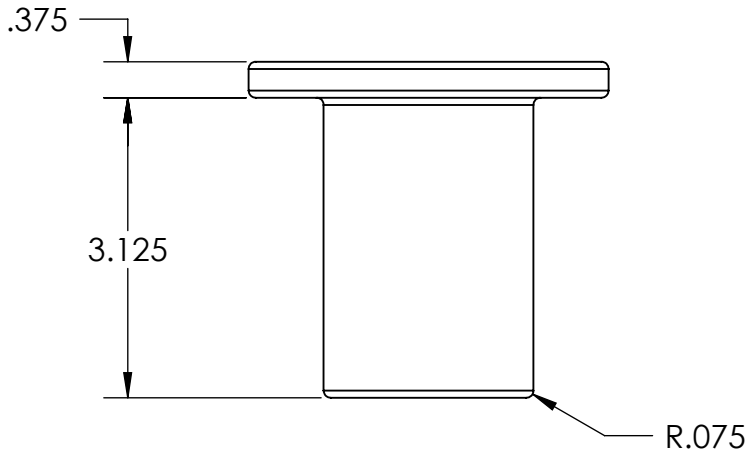
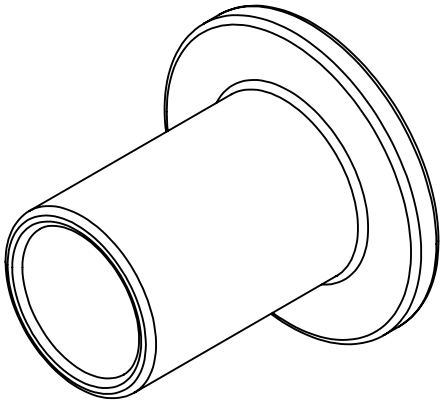
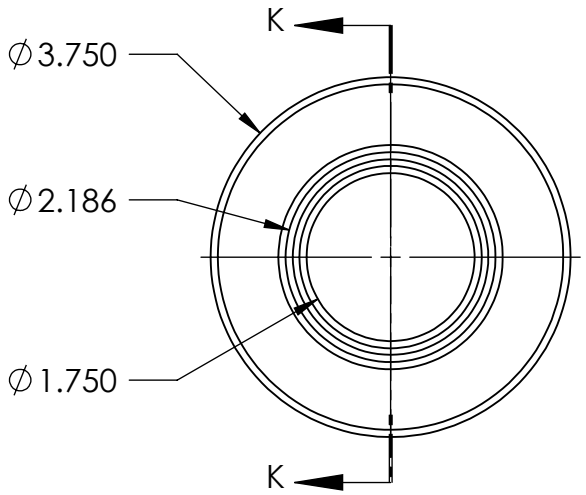
(The London Genltleman)

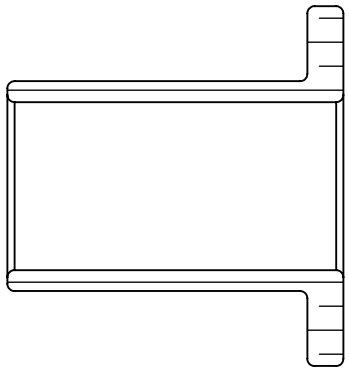
Odom's Inferno

PART #: 03-05 QTY: 01
SCALE: 1:2 SHEET: 7 OF 11









SECTION K-K

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gun Metal

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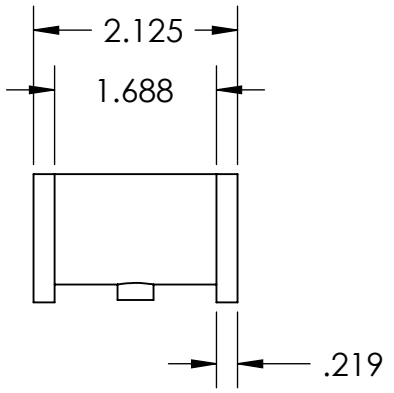
DEFAULT TOLERANCES:

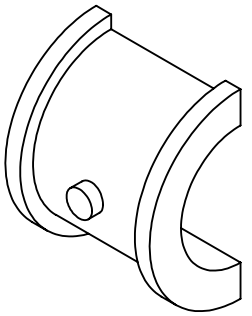
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

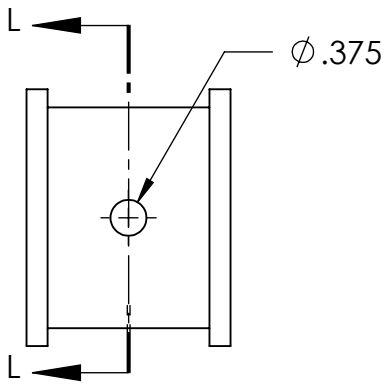
DESCRIPTION: Crank Bearing
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-07 Crank Shaft Bearing.SLDPRT

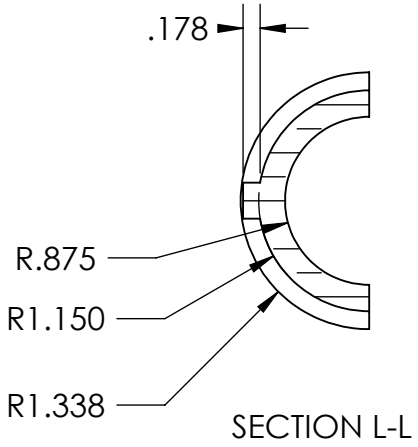
Odom's Inferno

PART #: 03-07 QTY: 02
SCALE: 1:2 SHEET: 8 OF 11









SECTION L-L

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gun Metal

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Center Bushing Bottom
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-10 Center Bushing Bottom Half.SLDPRT

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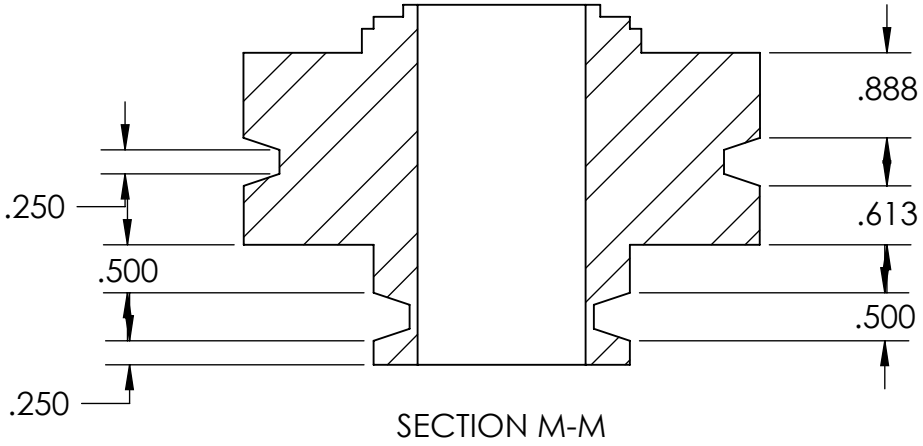
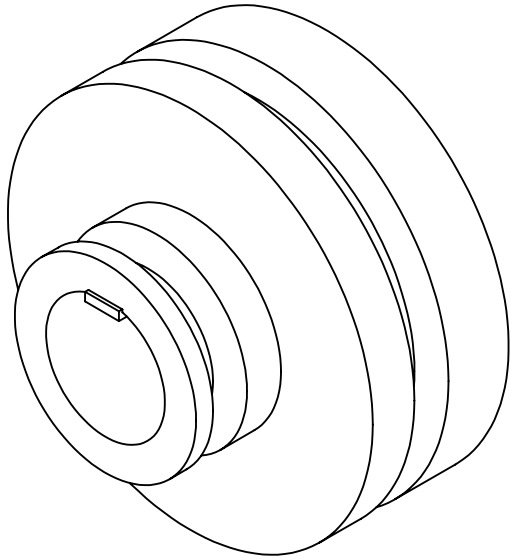
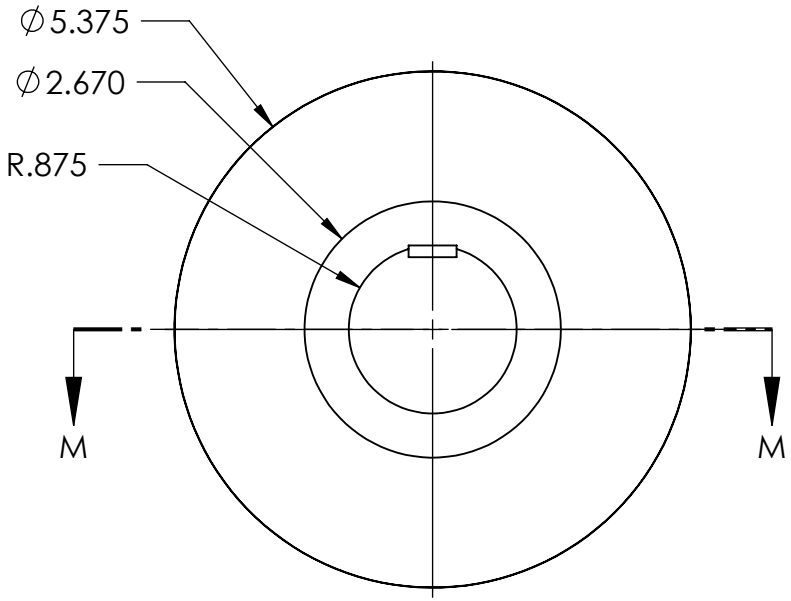
Odom's Inferno

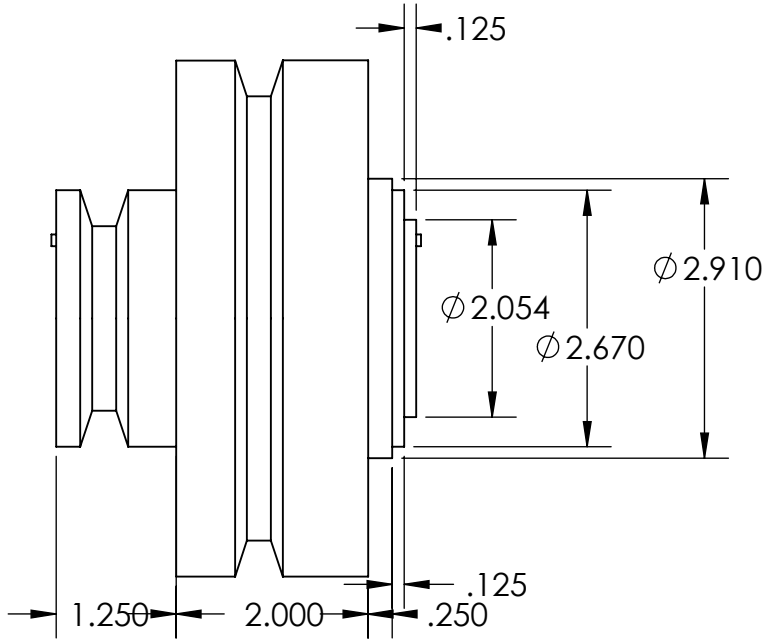
PART #: 03-10 QTY: 01
SCALE: 1:2 SHEET: 9 OF 11



SECTION M-M







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Vaires

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Starting Clutch
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 03-11 Starting Clutch.SLDPRT

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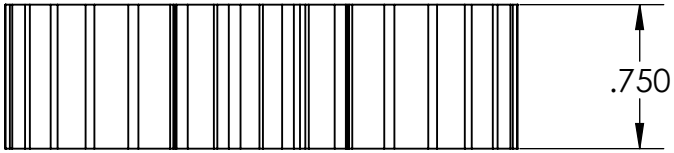
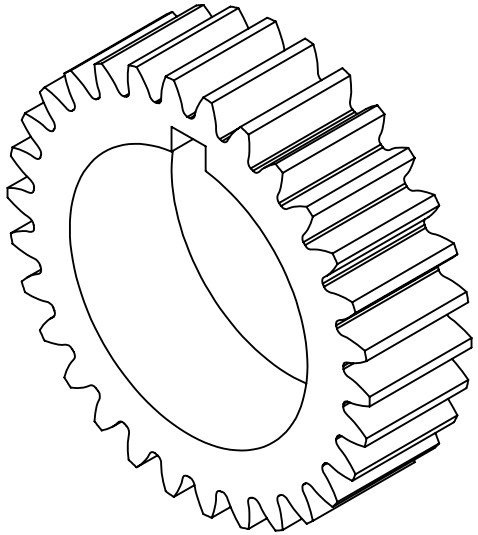
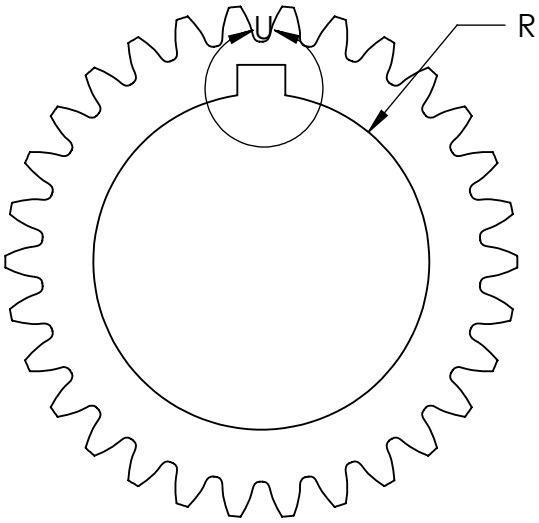
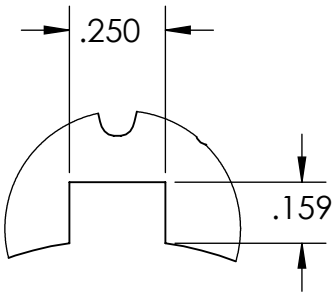
PART #: 03-11 QTY: 01
SCALE: 1:2 SHEET: 10 OF 11









DETAIL U
SCALE 2 : 1

12.0 Diametral Pitch, 2.5000in P.D.
Tooth Pattern: 30/30

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Nickel Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Crank Gear
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/4/2011
FILE NAME: 03-06 Crank gear.SLDPRT

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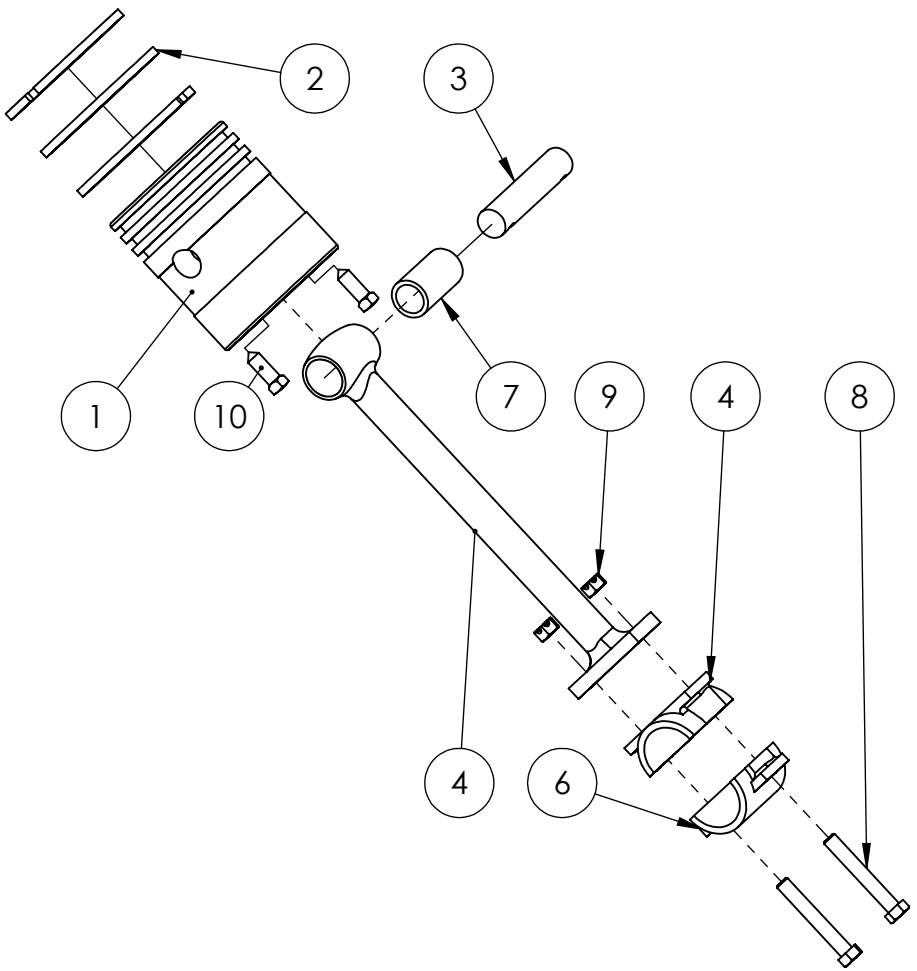
Odom's Inferno

PART #: 03-06
QTY: 01
SCALE: 1:1
SHEET: 11 OF 11



ITEM NO.	PART NO.	Description	QTY.	SHEET
1	04-01	Piston	1	2
2	04-02	Piston Ring	3	3
3	04-03	Gudgeon Pin	1	4
4	04-04	Connecting Rod	1	5
4	04-05	Rod Cap	1	6
6	04-06	Lower Rod Cap	1	7
7	04-07	GM Bushing	1	8
8	04-08	HBOLT 0.3750-16x2.5x1-N	2	
9	04-09	HSNUT 0.3750-16-D-N	2	
10	04-10	SSCONESQR 0.375-16x-1-N	2	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Piston and Connecting Rod Assembly

CHECKED BY: DATE:

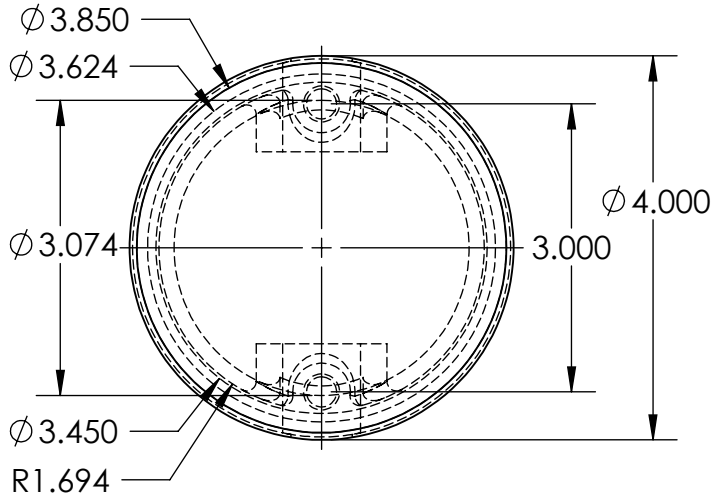
DRAWN BY: Casey Sweeney DATE: 5/3/2011

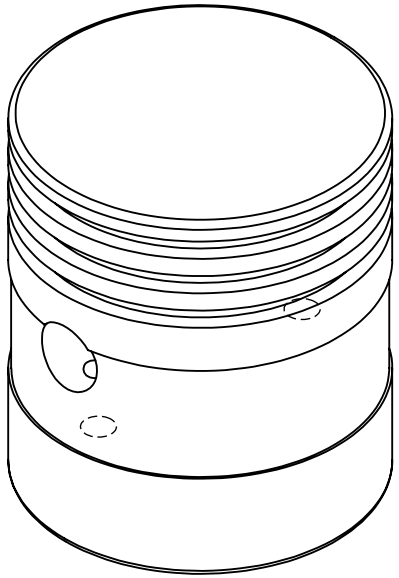
FILE NAME: 04-00 Piston and Connecting Rod Assembly - Exploded View.SLDPRT

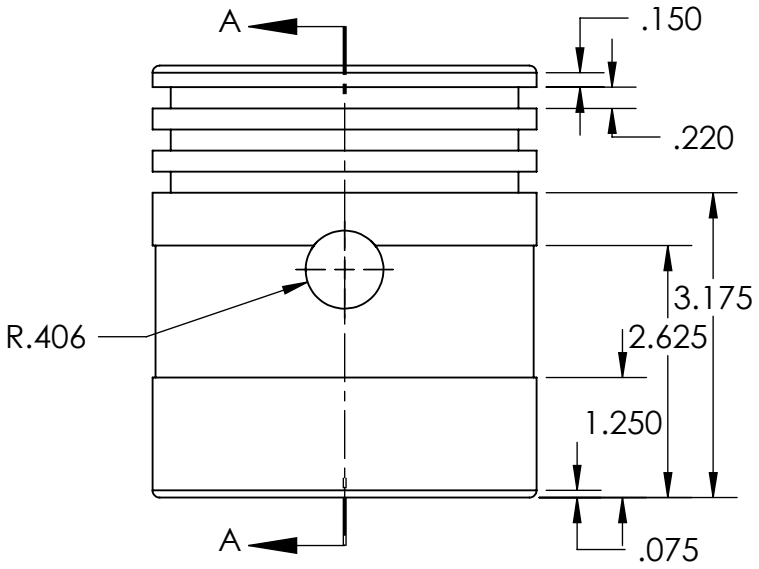
Odom's Inferno

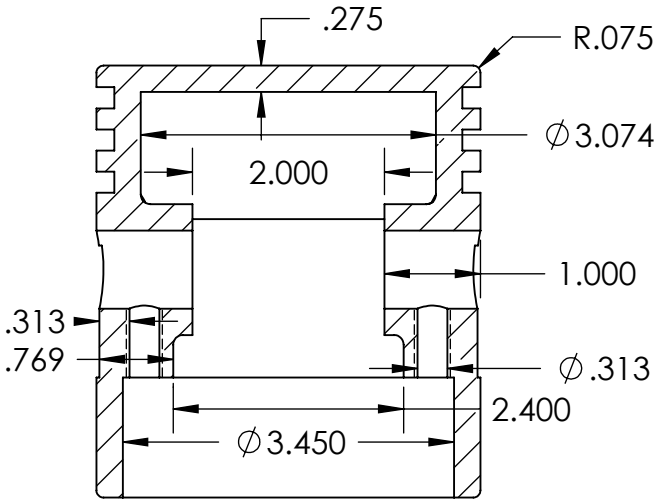
PART #: 04-00 QTY: 4

SCALE: 1:5 SHEET: 1 OF 8









SECTION A-A

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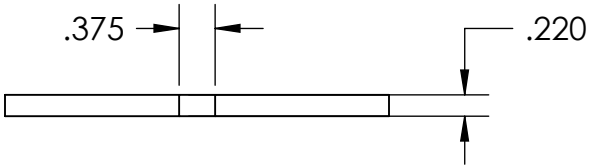
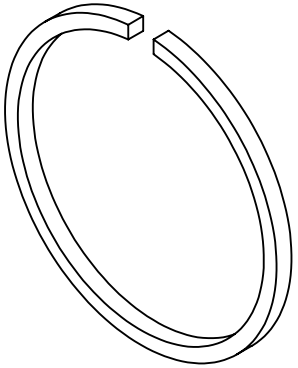
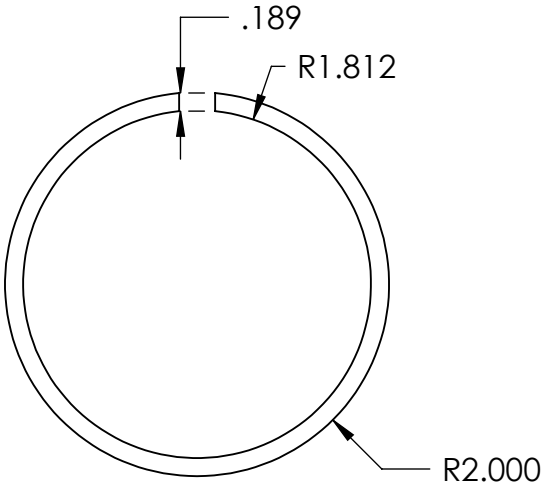
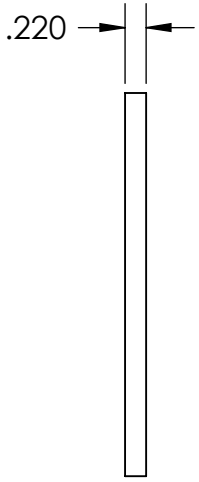
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Piston CHECKED BY: DATE: DRAWN BY: Casey Sweeney DATE: 4/28/2011 FILE NAME: 04-01 - Piston.SLDPRT	**Odom's Inferno** PART #: 04-01 QTY: 1 SCALE: 1:2 SHEET: 2 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Pure Gold

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Piston Ring

CHECKED BY: DATE:

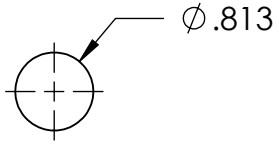
DRAWN BY: Casey Sweeney DATE: 4/28/2011

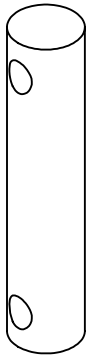
FILE NAME: 04-02 - Piston Ring.SLDPRT

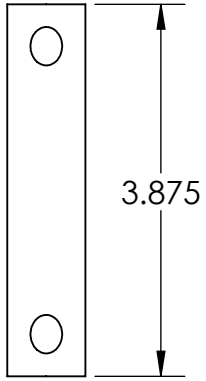
Odom's Inferno

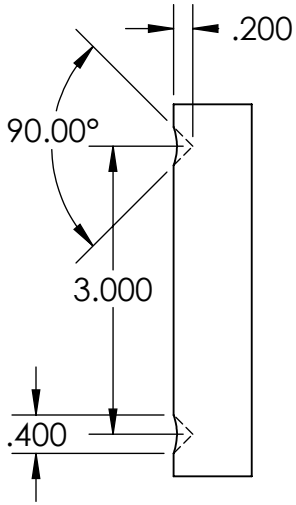
PART #: 04-02 QTY: 3

SCALE: 1:2 SHEET: 3 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Plain Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Gudgeon Pin
CHECKED BY: DATE:
DRAWN BY: Casey Sweeney DATE: 5/2/2011
FILE NAME: 04-03 - Gudgeon Pin.SLDPRT

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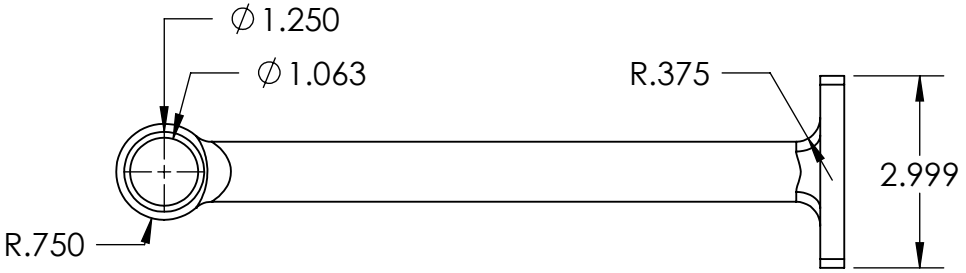
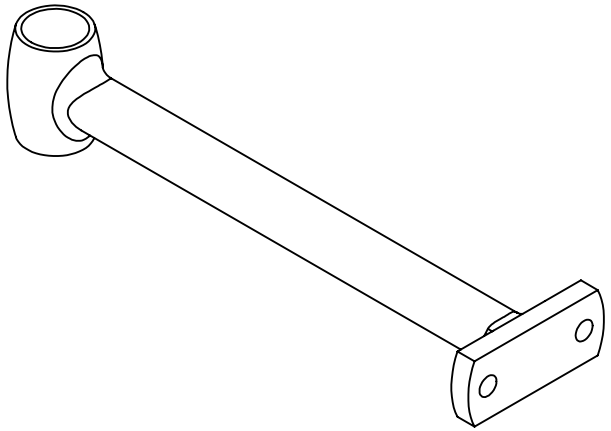
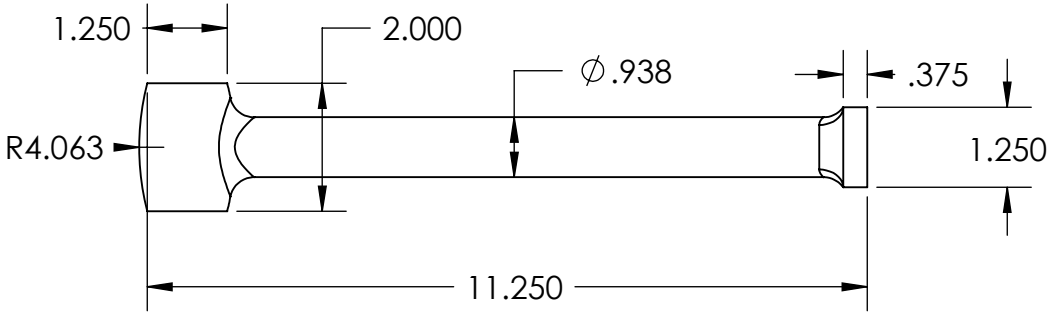
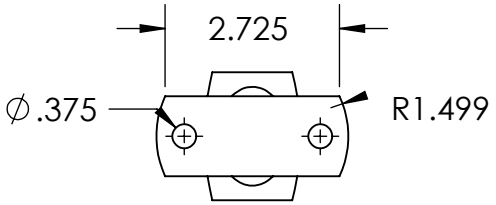
PART #: 04-03 QTY: 1
SCALE: 1:2 SHEET: 4 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 7075-T6 (SN)

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Connecting Rod

CHECKED BY: DATE:

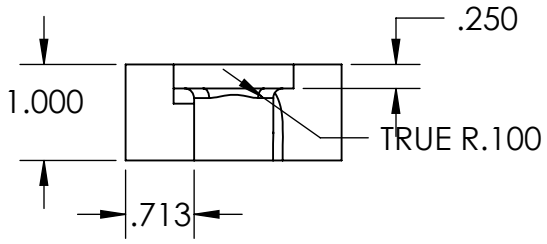
DRAWN BY: Casey Sweeney DATE: 5/2/2011

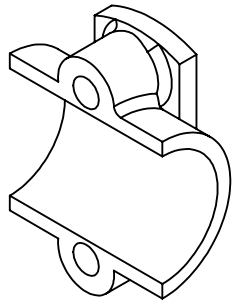
FILE NAME: 04-04 - Connecting Rod.SLDPRT

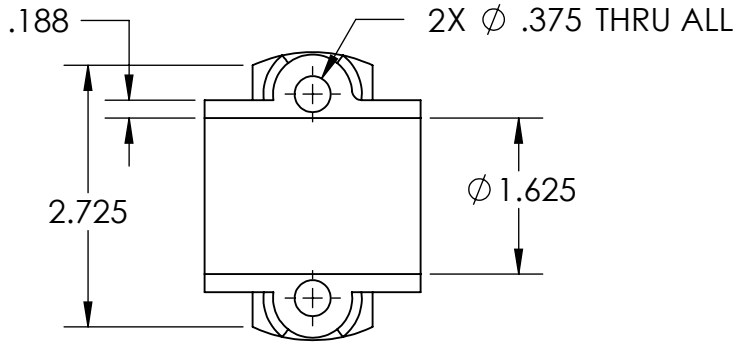
Odom's Inferno

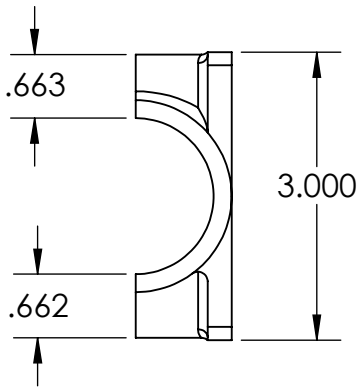
PART #: 04-04 QTY: 1

SCALE: 1:3 SHEET: 5 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 7075-T6 (SN)

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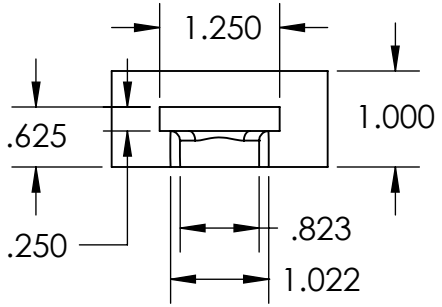
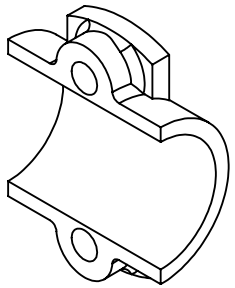
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

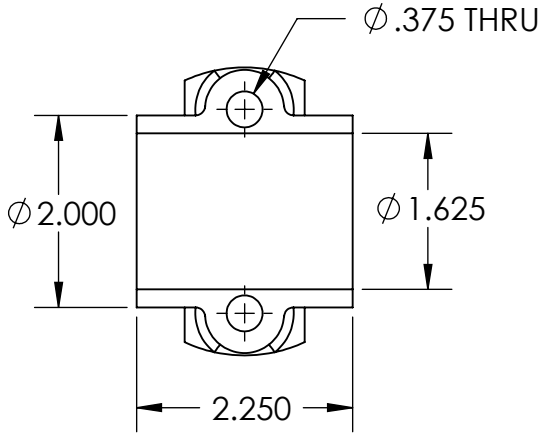
DESCRIPTION: Rod Cap
CHECKED BY:
DATE:
DRAWN BY: Casey Sweeny
DATE: 5/3/2011
FILE NAME: 04-05 - Rod Cap - Middle.SLDPRT

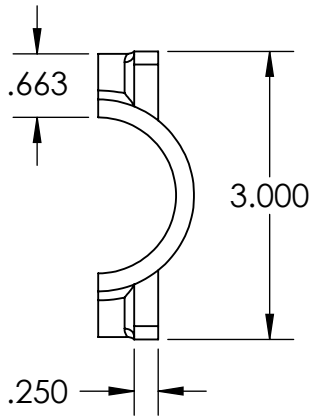
Odom's Inferno

PART #: 04-05
QTY: 4
SCALE: 1:2
SHEET: 6 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 7075-T6 (SN)

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Lower Rod Cap
CHECKED BY: DATE:
DRAWN BY: Casey Sweeney DATE: 5/3/2011
FILE NAME: 04-06 - Rod Cap - Lower.SLDPRT

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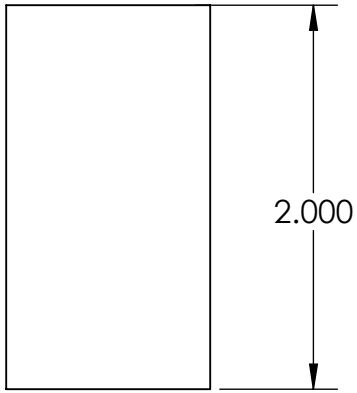
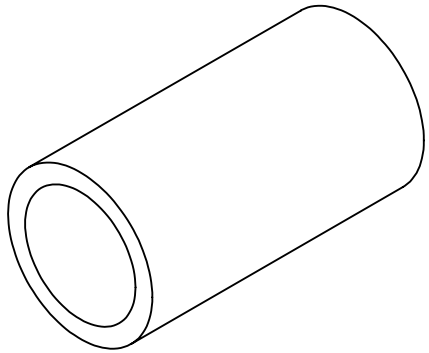
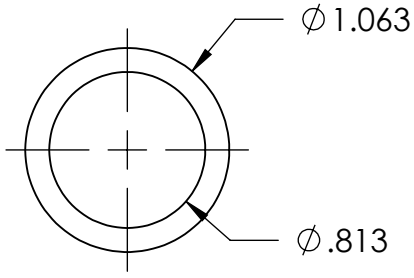
PART #: 04-06 QTY: 4
SCALE: 1:2 SHEET: 7 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Plain Carbon Steel

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: GM Bushing

CHECKED BY: DATE:

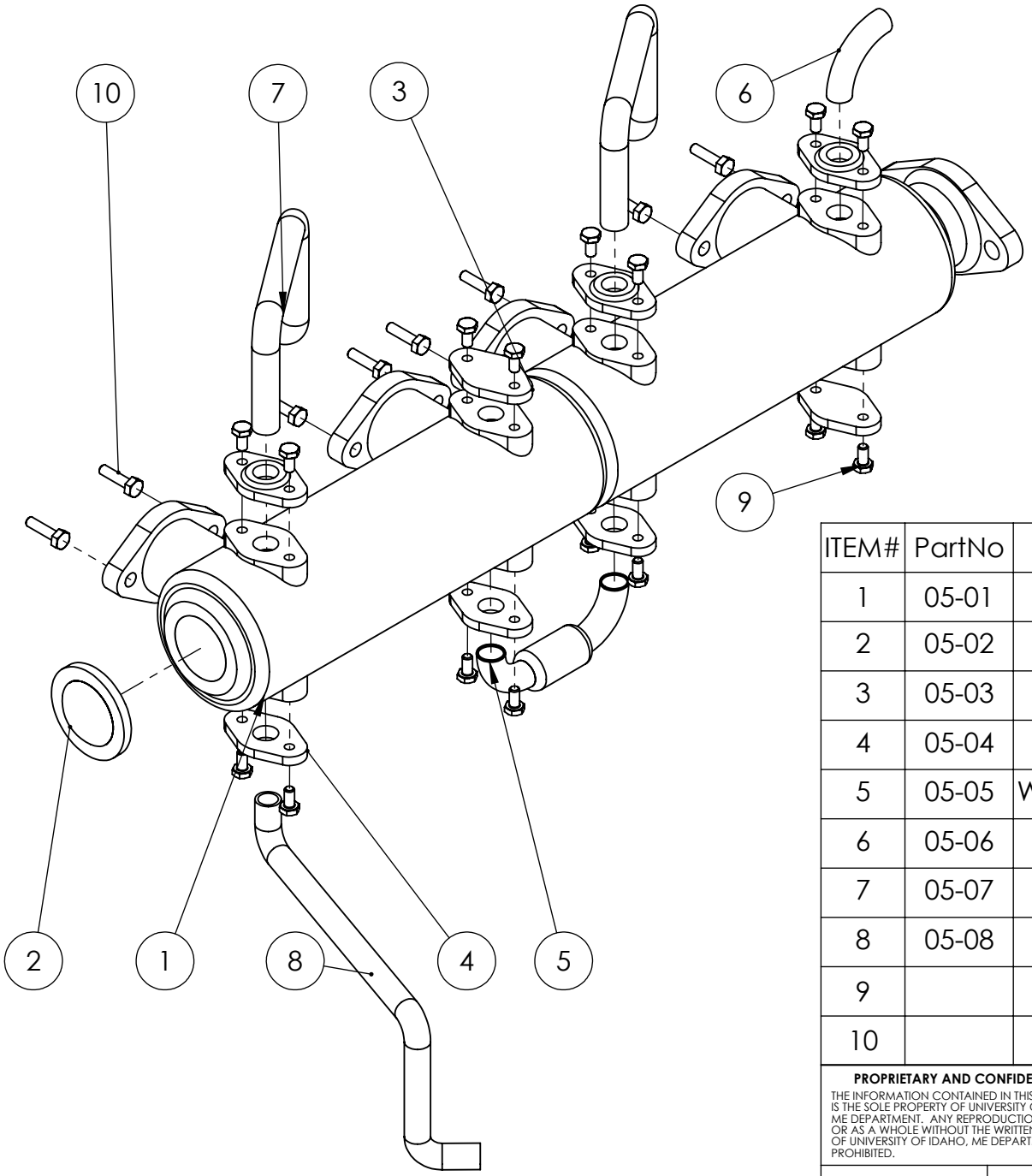
DRAWN BY: Casey Sweeney DATE: 5/2/2011

FILE NAME: 04-07 - GM Bushing.SLDPRT

Odom's Inferno

PART #: 04-07 QTY: 1

SCALE: 1:1 SHEET: 8 OF 8



ITEM#	PartNo	DESCRIPTION	QTY.	SHEET
1	05-01	Exhaust Drum Water colded	1	2
2	05-02	Exhaust Cap	1	3
3	05-03	Water Cap	2	4
4	05-04	Water Cap	6	5
5	05-05	Water pipe connector exhaust	1	6
6	05-06	Water Outlet Pipe	1	7
7	05-07	Piping from head to exhaust	2	8
8	05-08	Piping from exhaust to carb	1	9
9		HFBOLT 0.25-20x0.5x0.5-N	16	
10		HBOLT 0.2500-20x1x0.75-N	8	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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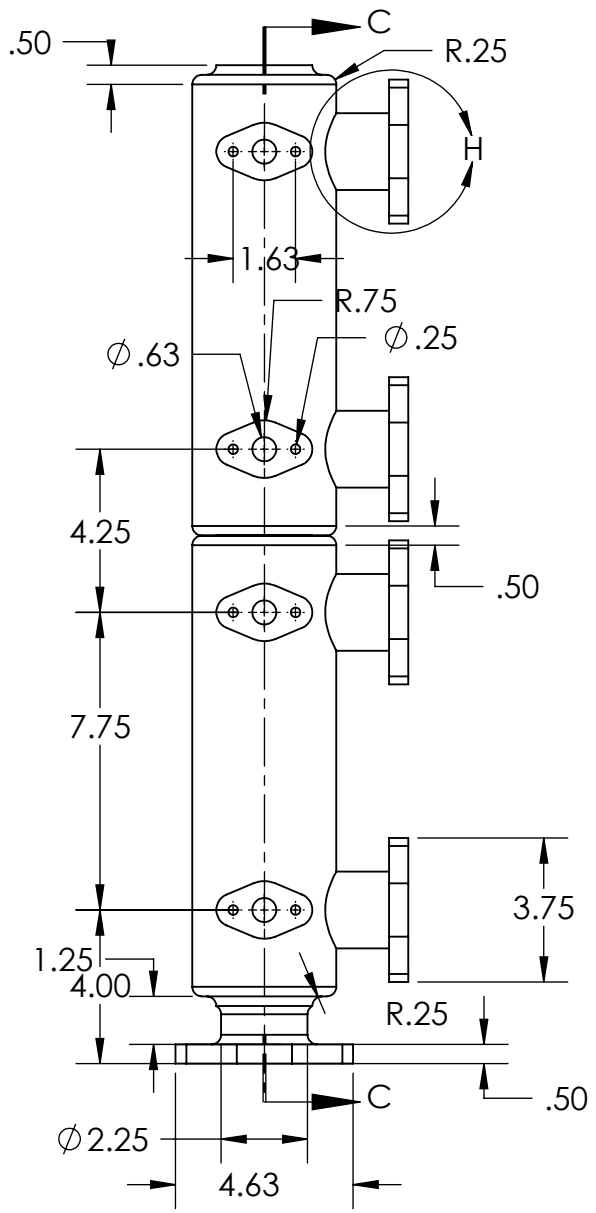
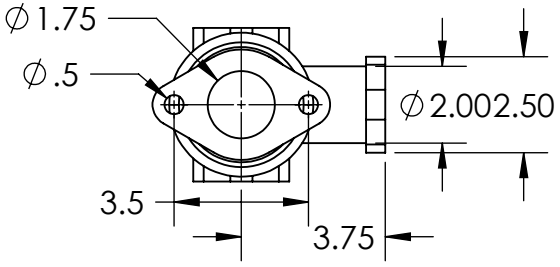
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

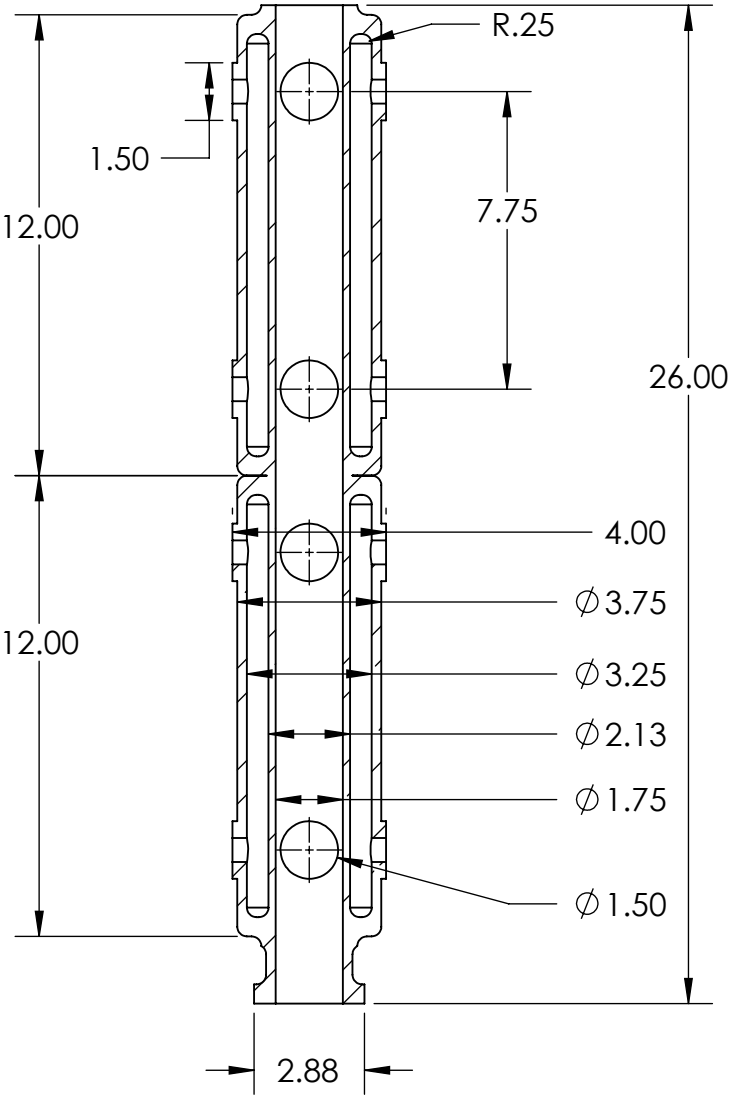
DESCRIPTION: Exahust & Water Jacket Assembly
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 5/3/2011
FILE NAME: 05-00.SLDPRT

Odom's Inferno

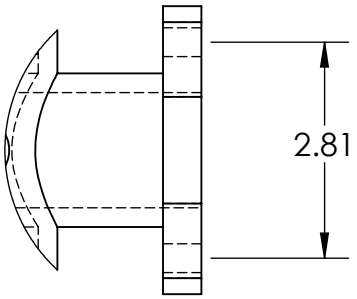
PART #: 05-00 QTY: 1
SCALE: 1:4 SHEET: 1 OF 9







SECTION C-C



DETAIL H
SCALE 2 : 5

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Exhaust Drum Water colded
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/20/2011
FILE NAME: 05-01 Exhaust Drum & Water Jacket 2.SLDPRT

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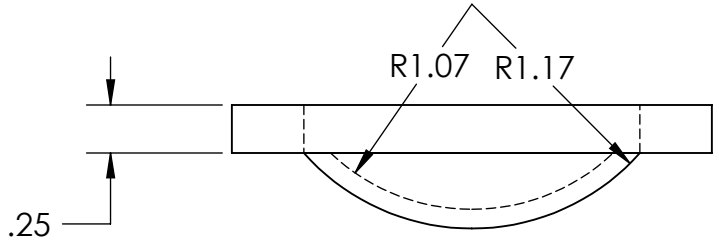
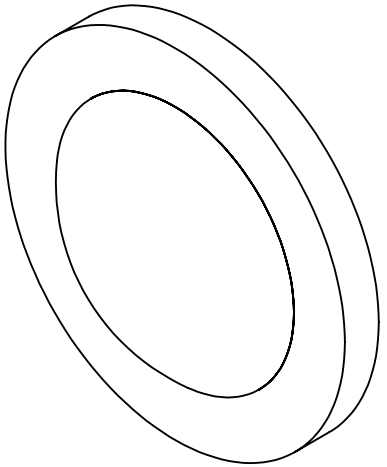
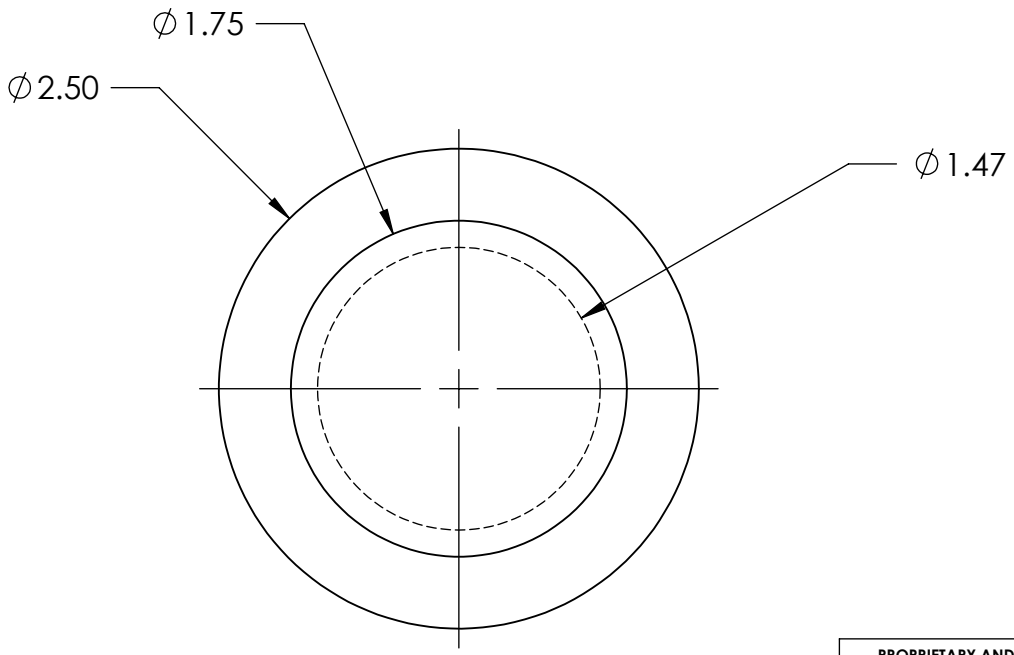
PART #: 05-01 QTY: 1
SCALE: 1:5 SHEET: 2 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Exhaust Cap
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/19/2011
FILE NAME: 05-02 exhaust cap.SLDPRT

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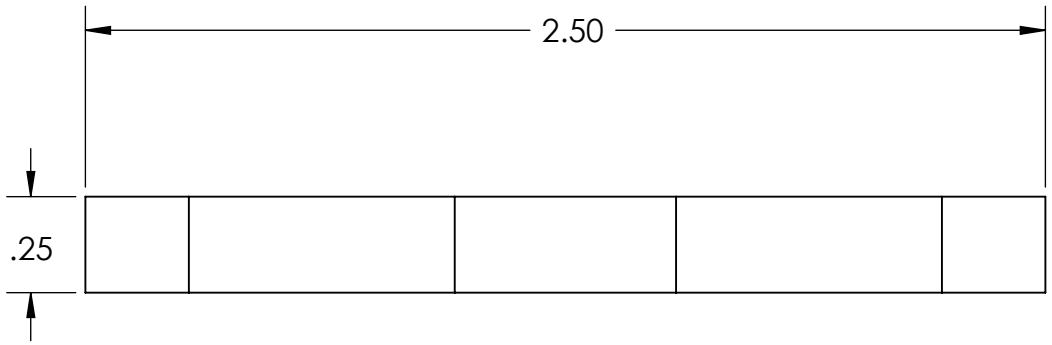
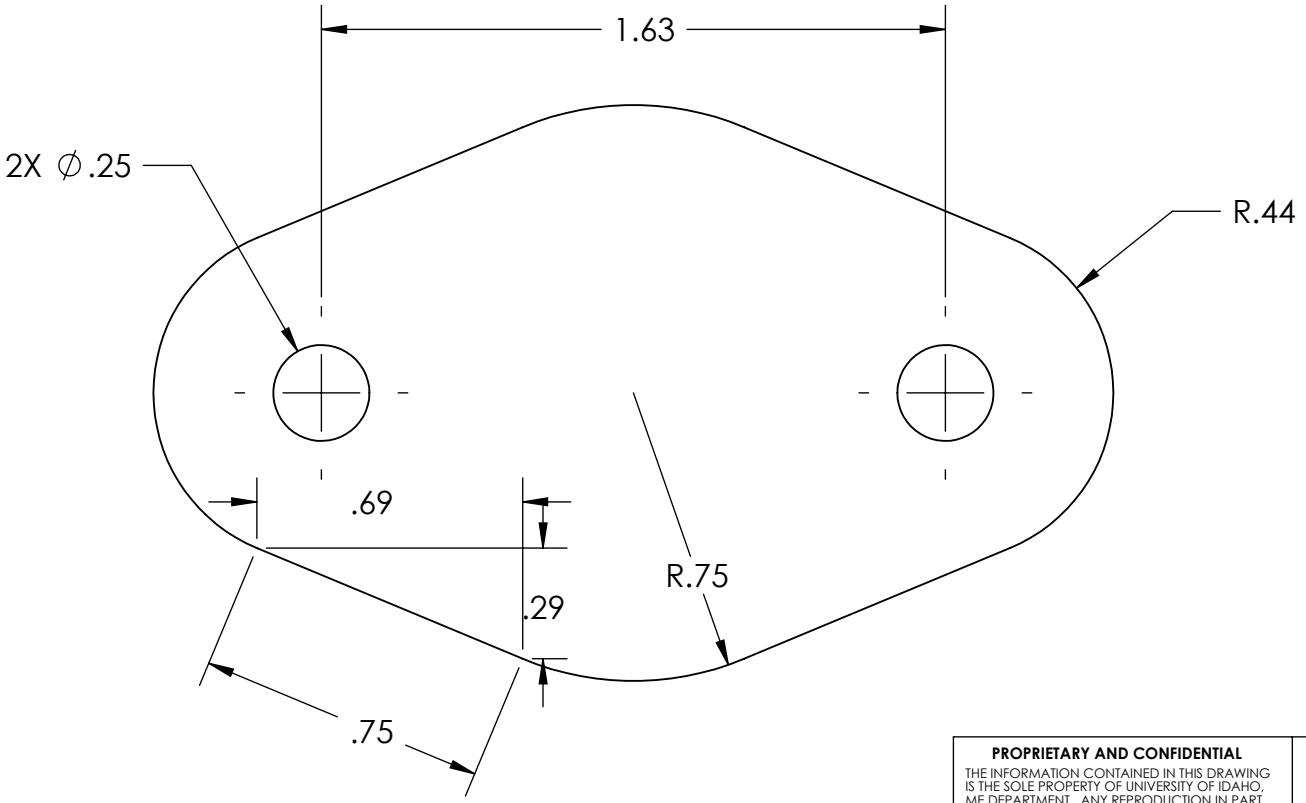
Odom's Inferno

PART #: 05-02 QTY: 1
SCALE: 1:1 SHEET: 3 OF 9





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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Water Cap
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/19/2011
FILE NAME: 05-03 Water cap.SLDPRT

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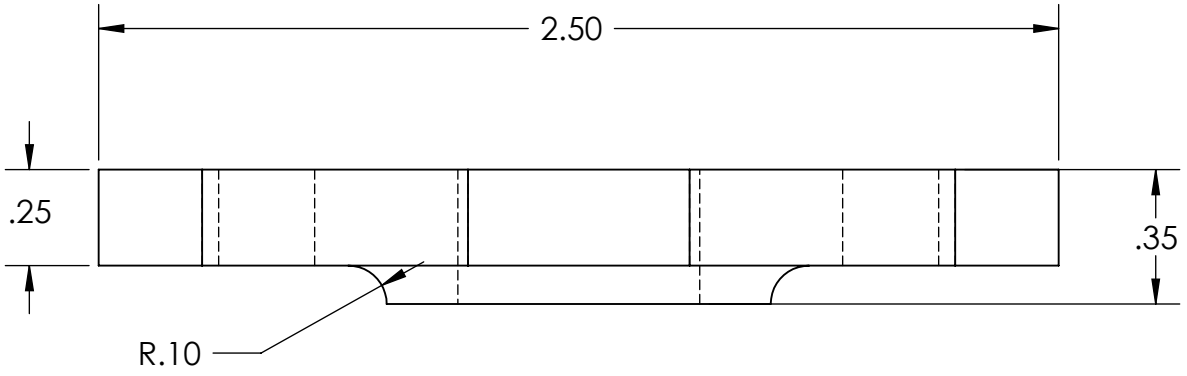
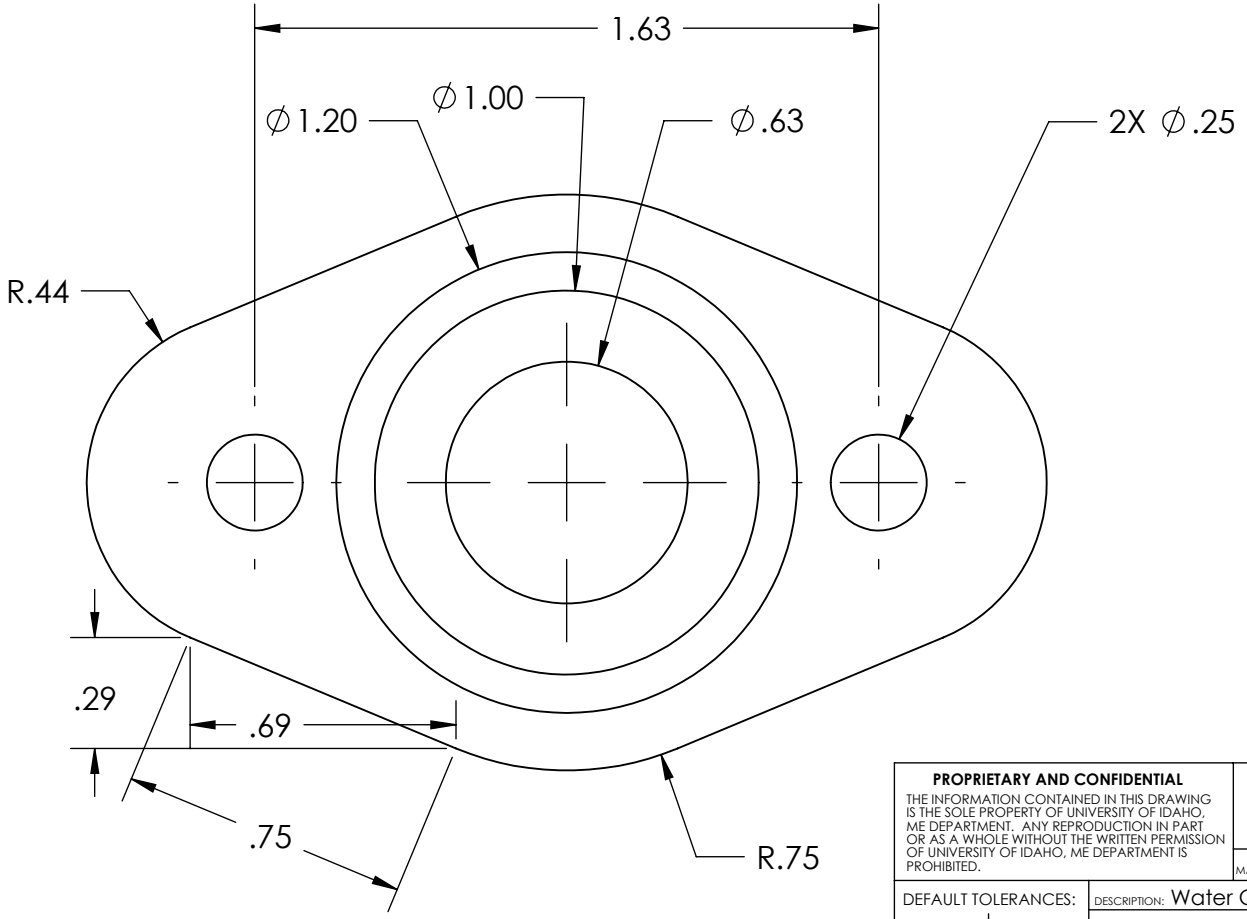
Odom's Inferno

PART #: 05-03 QTY: 2
SCALE: 1:4 SHEET: 4 OF 9





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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Water Cap
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/19/2011
FILE NAME: 05-04 Water cap piping.SLDPRT

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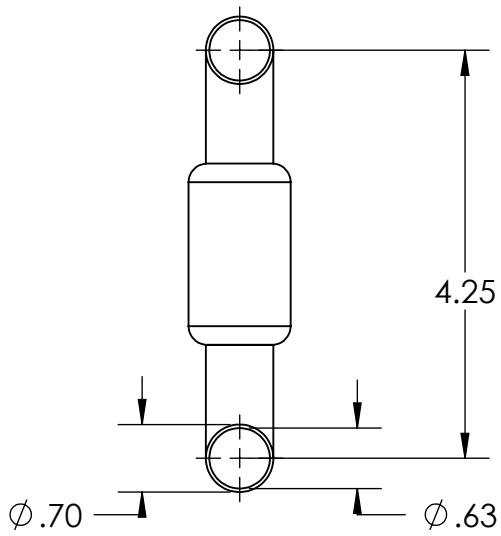
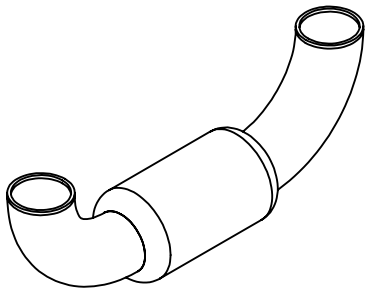
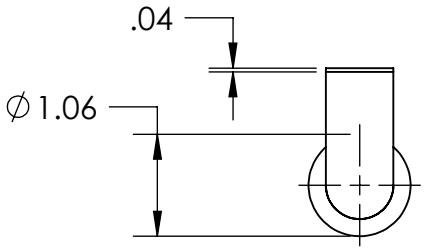
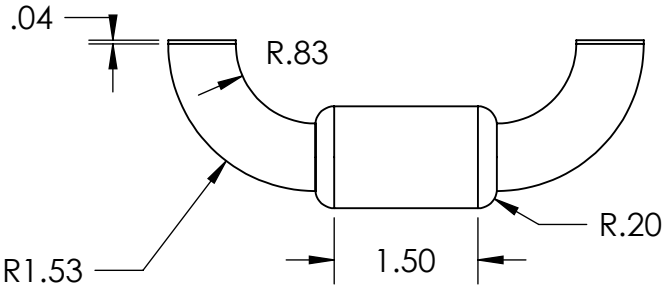
PART #: 05-04 QTY: 6
SCALE: 1:4 SHEET: 5 OF 9









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

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Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Water pipe connector exhaust

CHECKED BY: DATE:

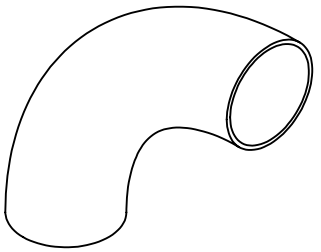
DRAWN BY: Chad Nuxoll DATE: 4/21/2011

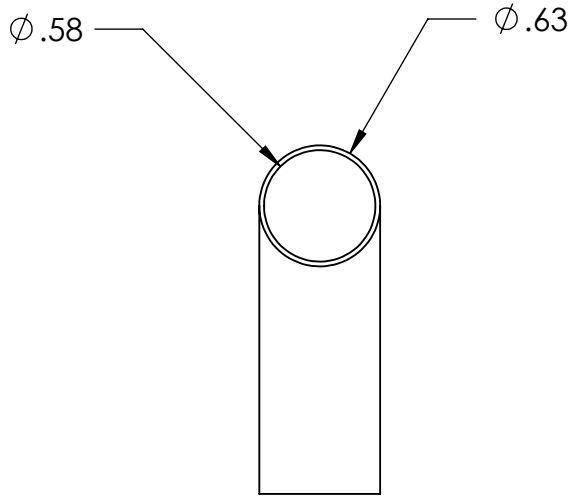
FILE NAME: 05-05 exhaust water pipe connector.SLDPRT

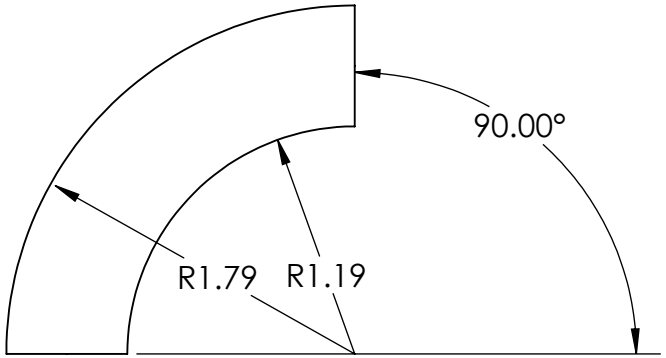
Odom's Inferno

PART #: 05-05 QTY: 1

SCALE: 1:2 SHEET: 6 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Water Outlet Pipe
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/19/2011
FILE NAME: 05-06 water outlet pipe.SLDPRT

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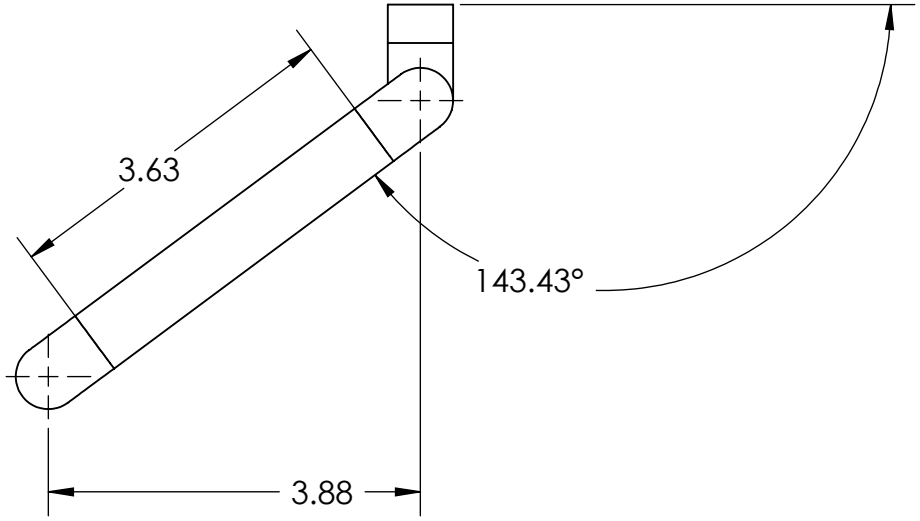
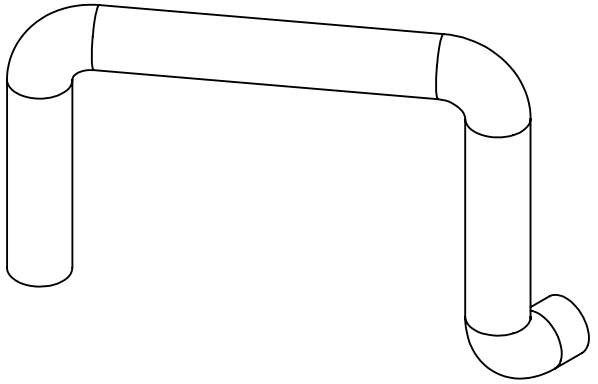
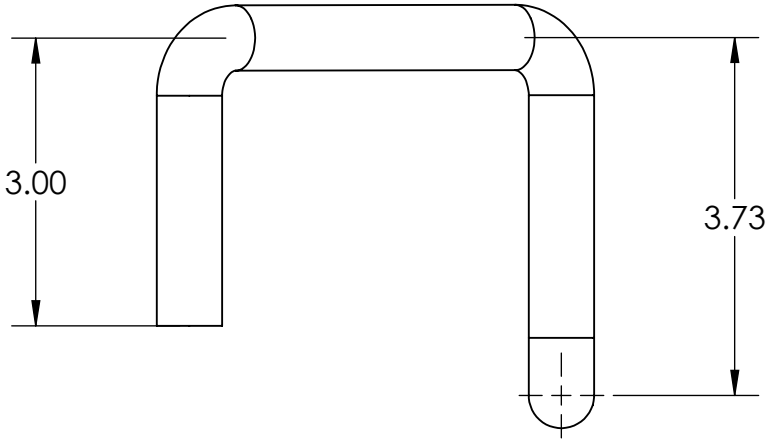
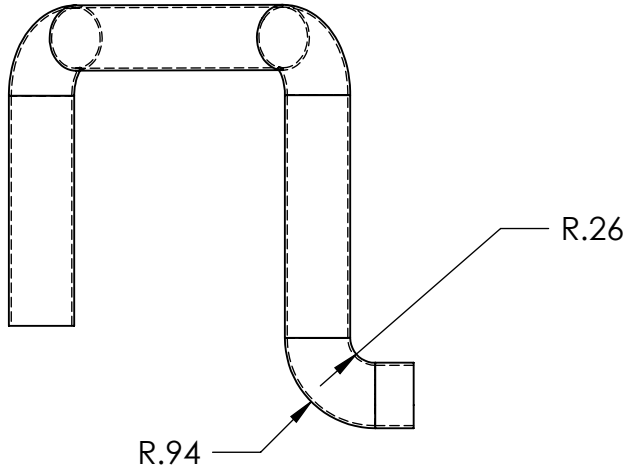
Odom's Inferno

PART #: 05-06 QTY: 1
SCALE: 1:1 SHEET: 7 OF 9









All bend radus are the same
Outside dia. 11/16 inside dia. 5/8

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Stainless Steel (ferritic)

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Piping from head to exhaust

CHECKED BY: DATE:

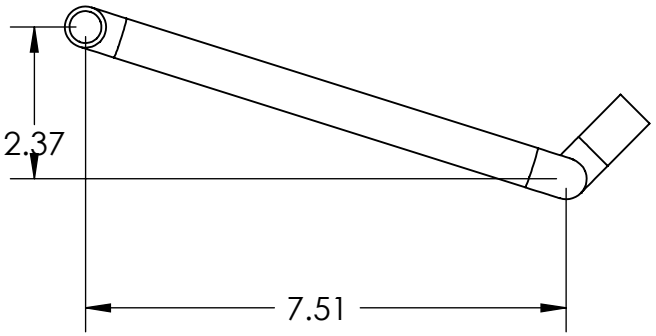
DRAWN BY: Chad Nuxoll DATE: 4/26/2011

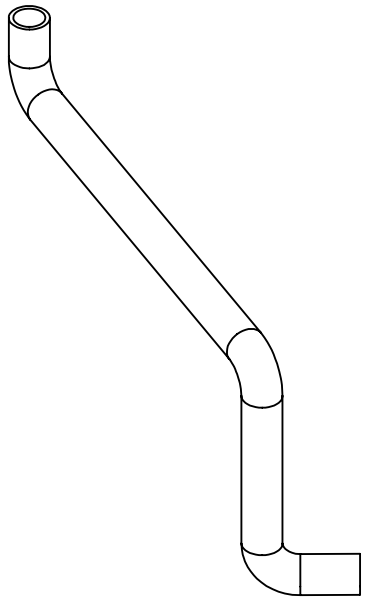
FILE NAME: 05-07Piping from block to exhaust.SLDPRT

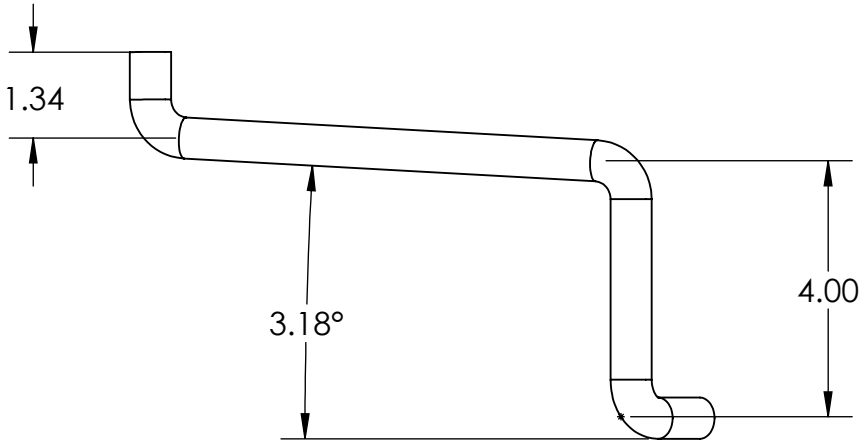
Odom's Inferno

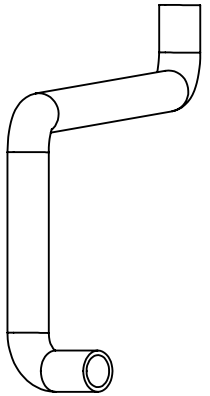
PART #: 05-07 QTY: 2

SCALE: 1:2 SHEET: 8 OF 9









All bend radus are the same
Outside dia. 11/16 inside dia. 5/8

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Piping from exhaust to carb

CHECKED BY: DATE:

DRAWN BY: Chad Nuxoll DATE: 4/21/2011

FILE NAME: 05-08Piping from exhaust to carb.SLDPRT

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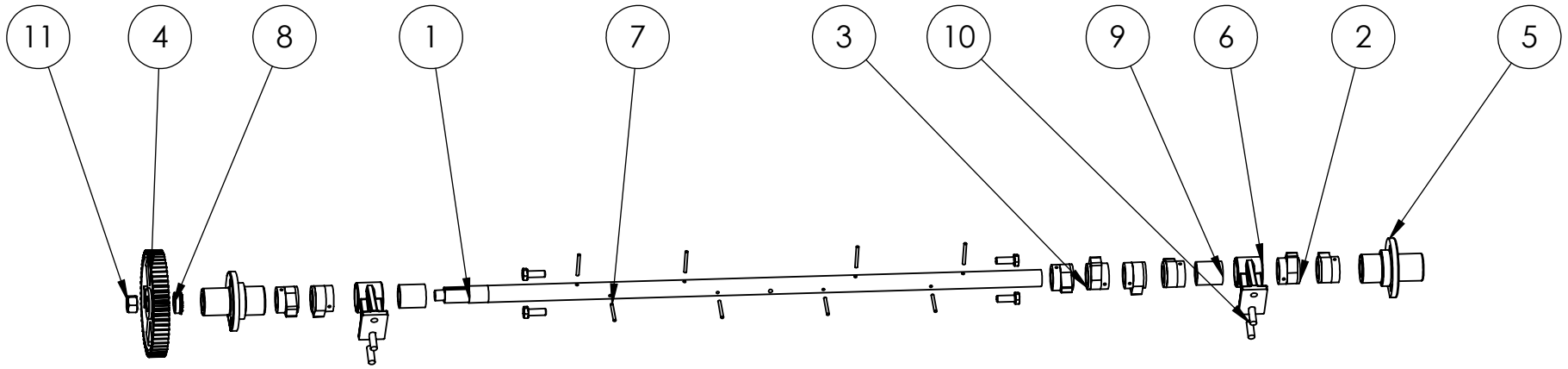
Odom's Inferno

PART #: 05-08 QTY: 1

SCALE: 1:3 SHEET: 9 OF 9



ITEM NO.	PartNo	DESCRIPTION	Quantity	SHEET
1	06-01	Crankshaft	1	2
2	06-02	Inlet Cam	4	3
3	06-03	Exhaust Cam	4	4
4	06-04	Camshaft Gear	1	5
5	06-05	Camshaft End Bearing	2	6
6	06-06	Internal Camshaft Bearing	2	7
7	06-07	Cam Lobe Pin	8	
8	06-09	Camshaft Commutator Gear	1	8
9	06-08	Internal Camshaft Bushing	2	
10	06-11	Internal Bearing Pin	4	
11		06-10 HNUT 0.5000-13-D-N	1	
12		HFBOLT 0.3125-18x0.875x0.875-N	6	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Camshaft Assembly
CHECKED BY:
DATE:
DRAWN BY: Ian Clarke
DATE: 5/3/2011
FILE NAME: 06-00 Camshaft Assembly.SLDPRT

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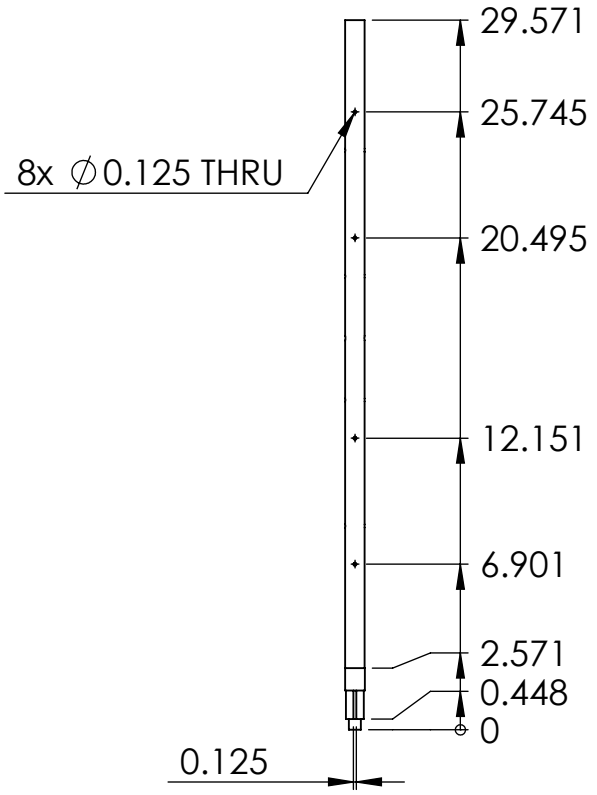
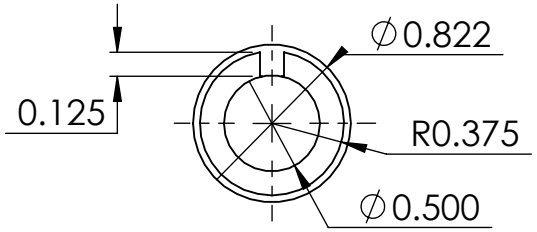
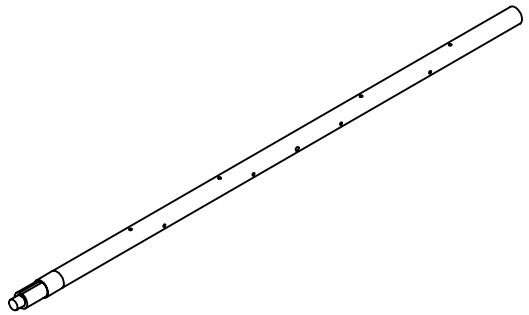
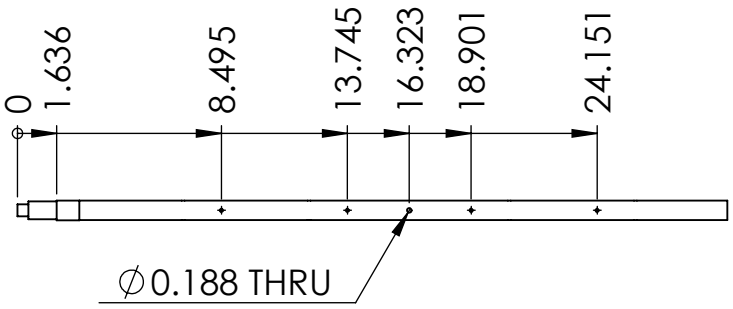
PART #: 06-00
QTY: 01
SCALE: 1:8
SHEET: 1 OF 8





SCALE= 1:1





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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Crankshaft
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/28/2011
FILE NAME: 06-01 Camshaft.SLDPRT

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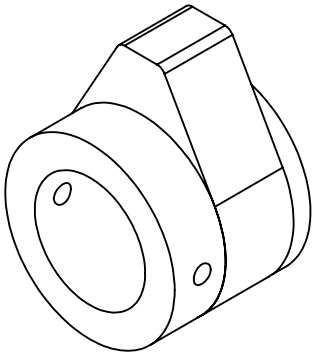
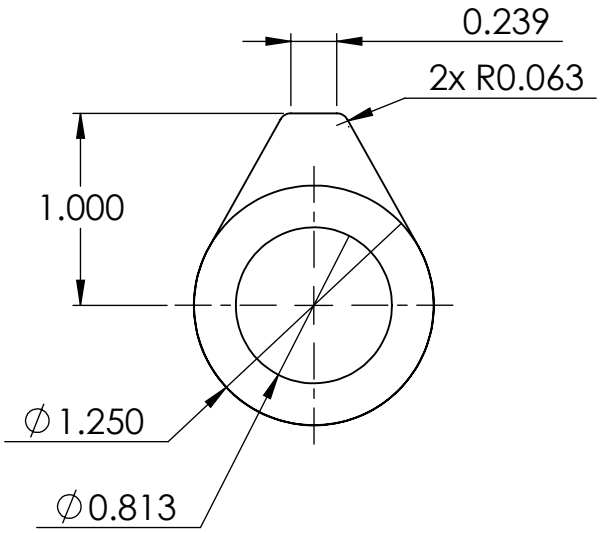
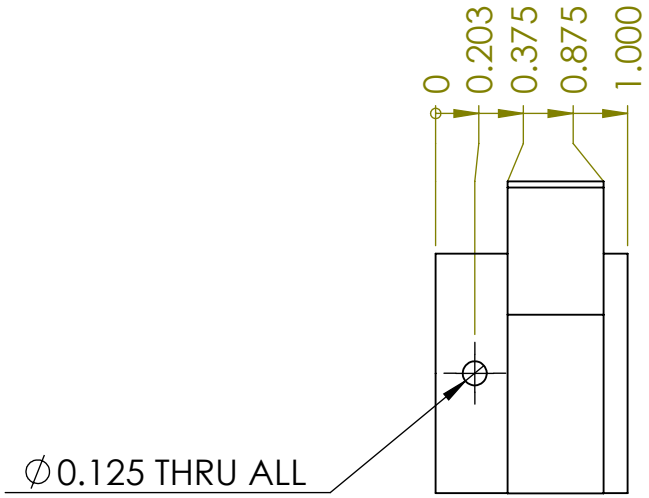
Odom's Inferno

PART #: 06-01 QTY: 01
SCALE: 1:8 SHEET: 2 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Inlet Cam

CHECKED BY: DATE:

DRAWN BY: Ian Clarke DATE: 4/26/2011

FILE NAME: 06-02 Inlet Cam.SLDPRT

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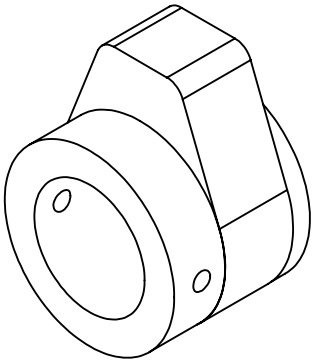
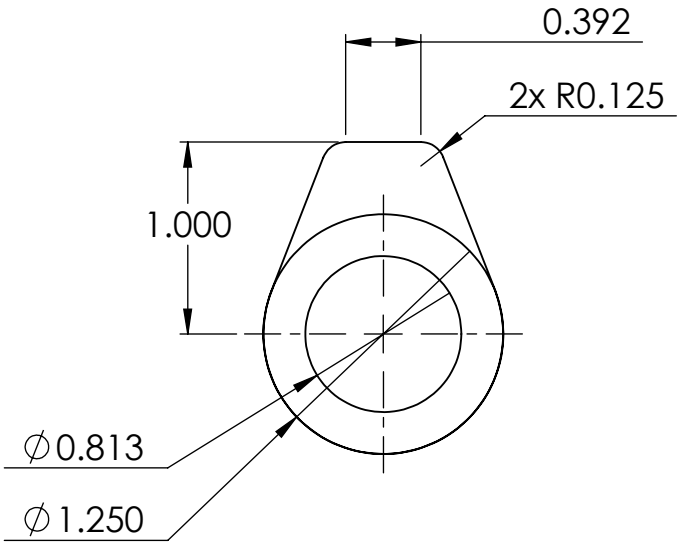
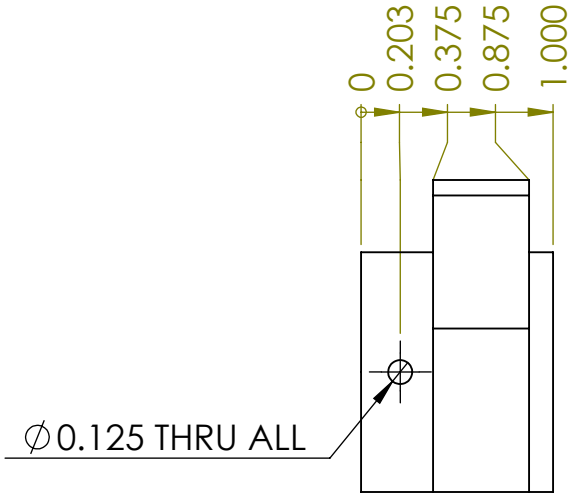
Odom's Inferno

PART #: 06-02 QTY: 4

SCALE: 1:1 SHEET: 3 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Exhaust Cam
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/26/2011
FILE NAME: 06-03 Exhaust Cam.SLDPRT

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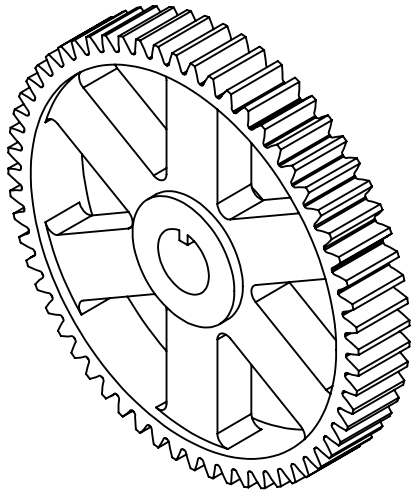
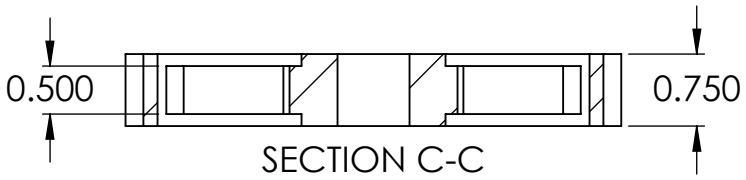
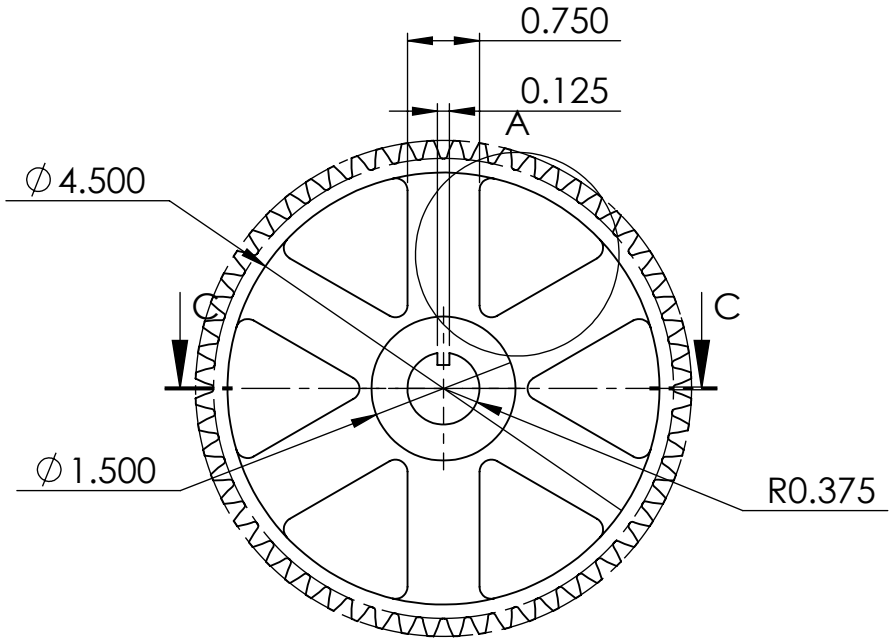
Odom's Inferno

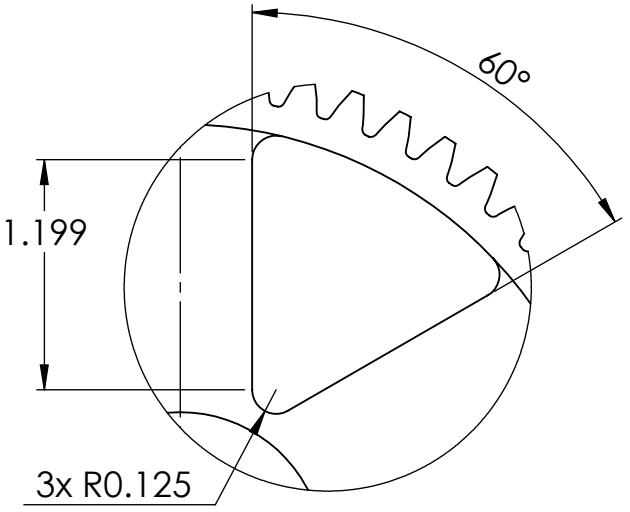
PART #: 06-03 QTY: 4
SCALE: 1:1 SHEET: 4 OF 8





SECTION C-C





DETAIL A
SCALE 1 : 1

60 Tooth
12.0 Diametral Pitch
5.0000in P.D.

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Camshaft Gear
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/25/2011
FILE NAME: 06-04 Camshaft Gear.SLDPRT

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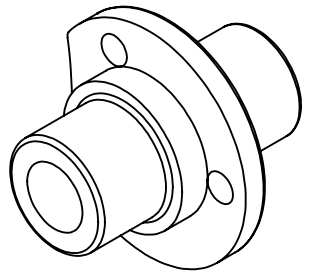
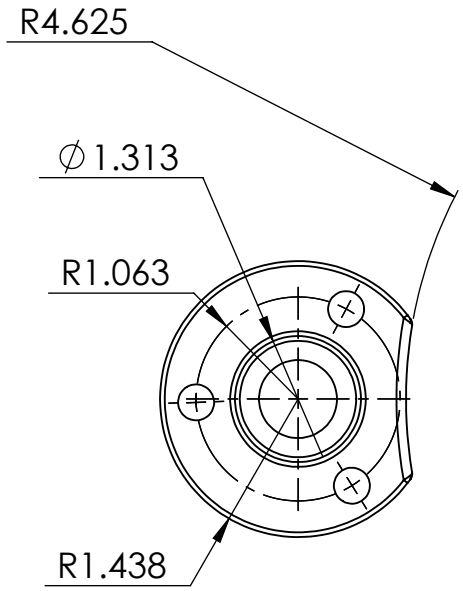
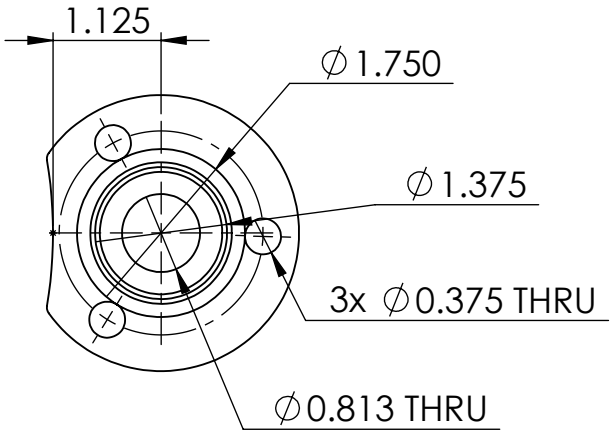
PART #: 06-04 QTY: 01
SCALE: 1:2 SHEET: 5 OF 8

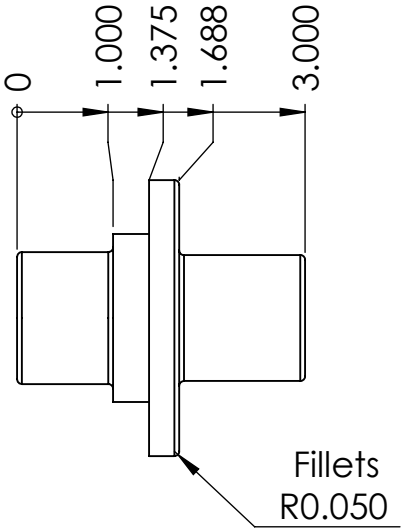




Back



Front



Right

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Camshaft End Bearing
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/19/2011
FILE NAME: 06-05 Cam Shaft End Bearing.SLDPRT

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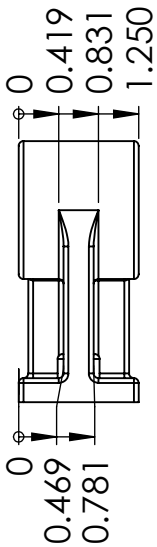
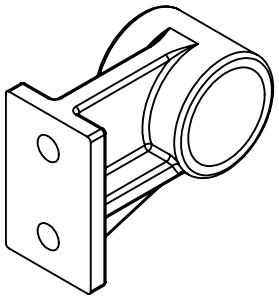
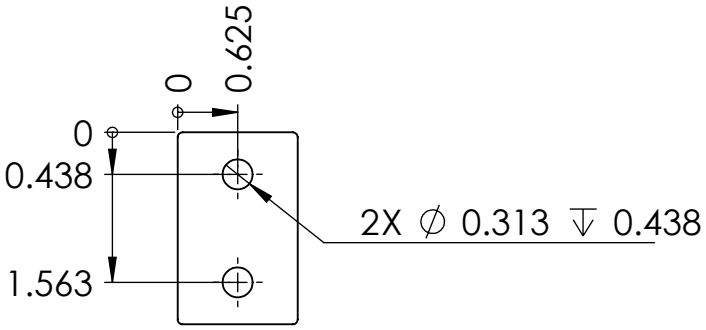
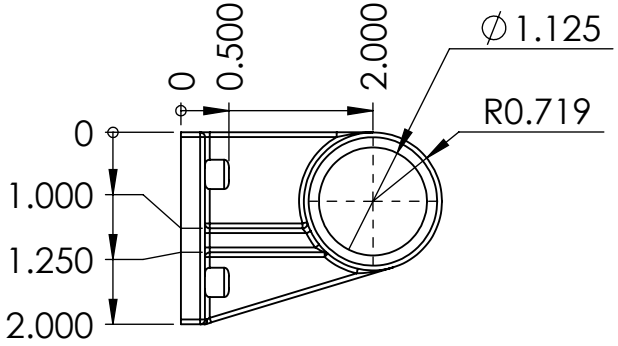
Odom's Inferno

PART #: 06-05 QTY: 02
SCALE: 1:2 SHEET: 6 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Internal Camshaft Bearing
CHECKED BY:
DATE:
DRAWN BY: Ian Clarke
DATE: 4/26/2011
FILE NAME: 06-06 Internal Camshaft Bearing.SLDPRT

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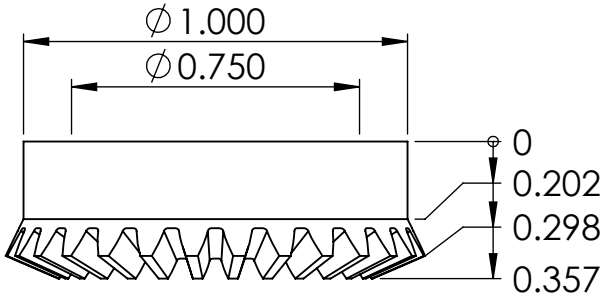
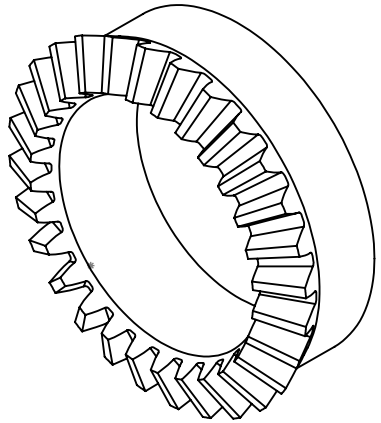
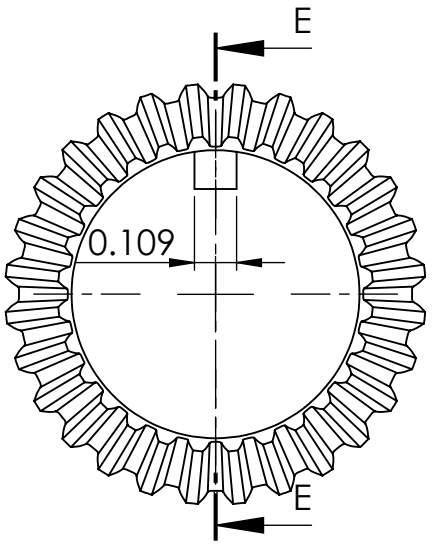
(The London Genltleman)

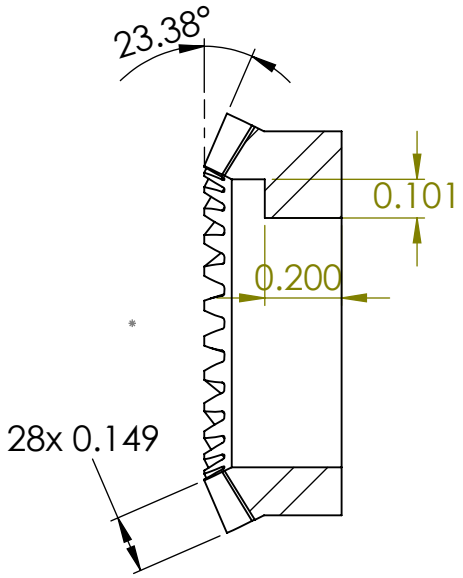
Odom's Inferno

PART #: 06-06
QTY: 02
SCALE: 1:8
SHEET: 7 OF 8









SECTION E-E
SCALE 2 : 1

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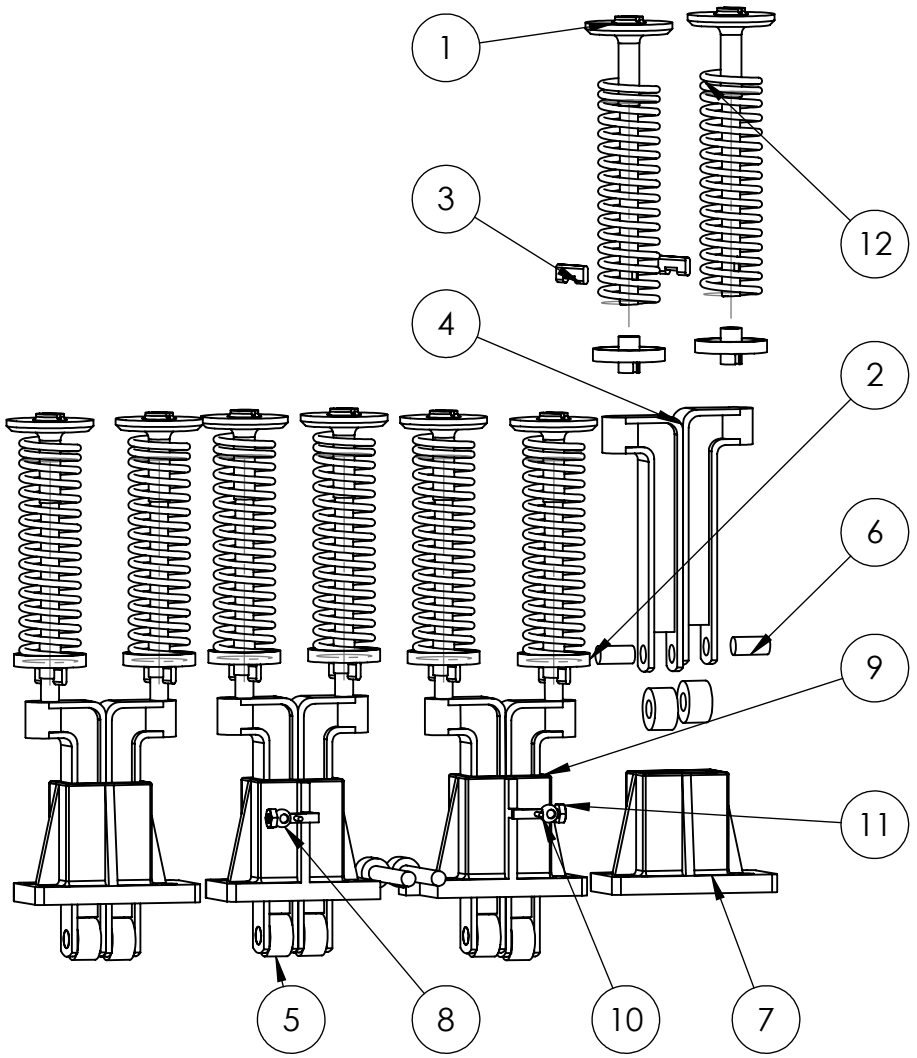
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Camshaft Commutator Gear CHECKED BY: DATE: DRAWN BY: Ian Clarke DATE: 4/25/2011 FILE NAME: 06-09 Camshaft Commutator Gear.SLDPRT	**Odom's Inferno** PART #: 06-09 QTY: 01 SCALE: 1:8 SHEET: 8 OF 8

ITEM NO.	PartNo	DESCRIPTION	QTY.	Sheet
1	07-01	Valve	8	2
2	07-02	Spring Plate	8	3
3	07-03	Valve Cotter	8	4
4	07-04	Valve Lifter	8	5
5	07-05	Hard Steel Roller	8	6
6	07-06	Pin	8	7
7	07-07	Lifter Guide	2	8
8	07-09	Lifter Guide L	1	9
9	07-10	Lifter Guide R	1	10
10		Spring Set Screw	2	
11		Spring Nut	2	
12		Valve Spring	8	



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Valve Lifter Assembly
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 5/3/2011
FILE NAME: 07-00 Valves Lifters - Callout.SLDPRT

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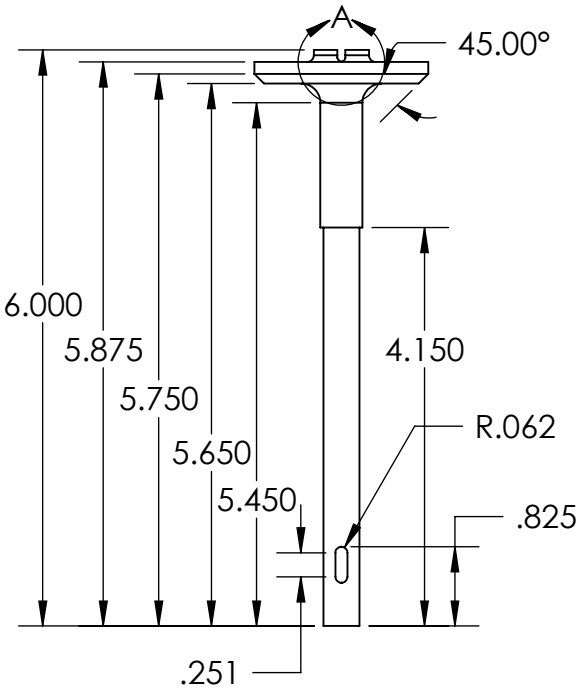
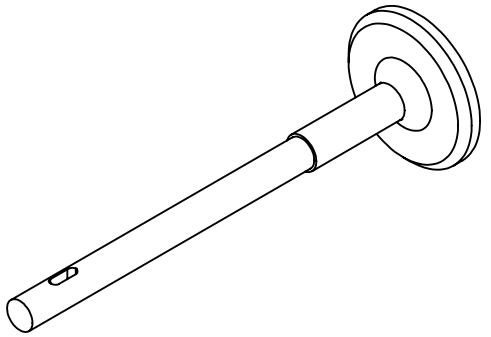
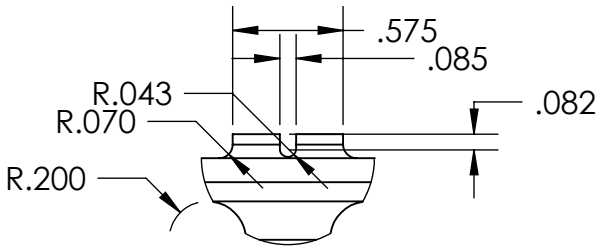
(The London Genltleman)

Odom's Inferno

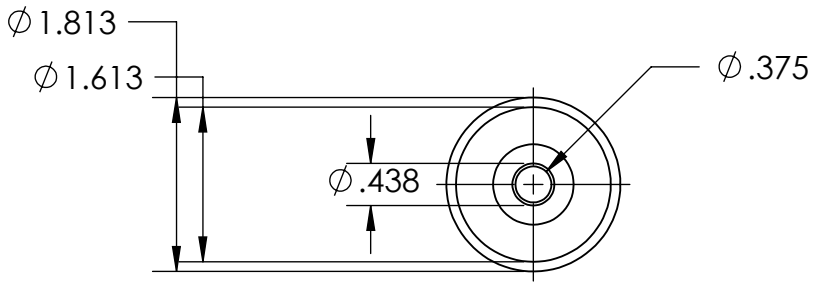
PART #: 07-00 QTY: 1
SCALE: 1:4 SHEET: 1 OF 10







DETAIL A
SCALE 1 : 1



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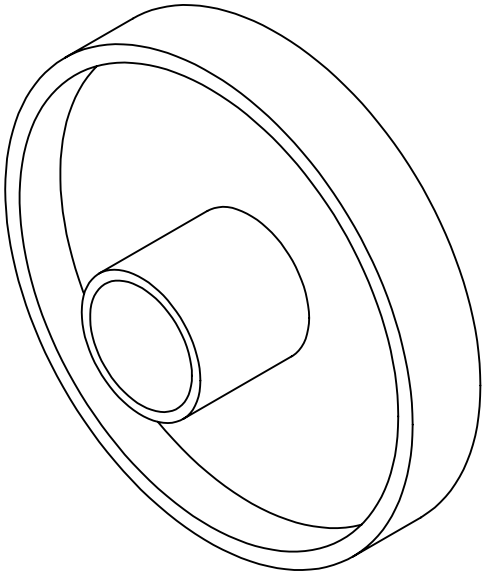
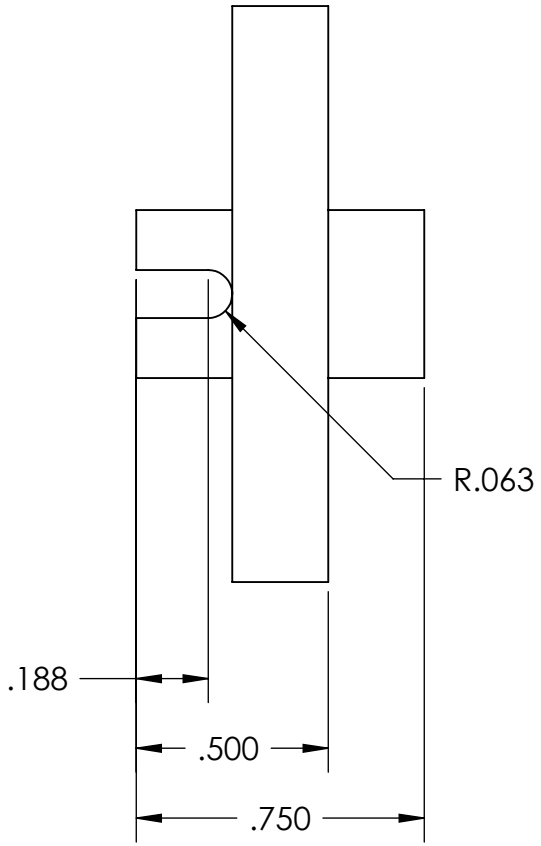
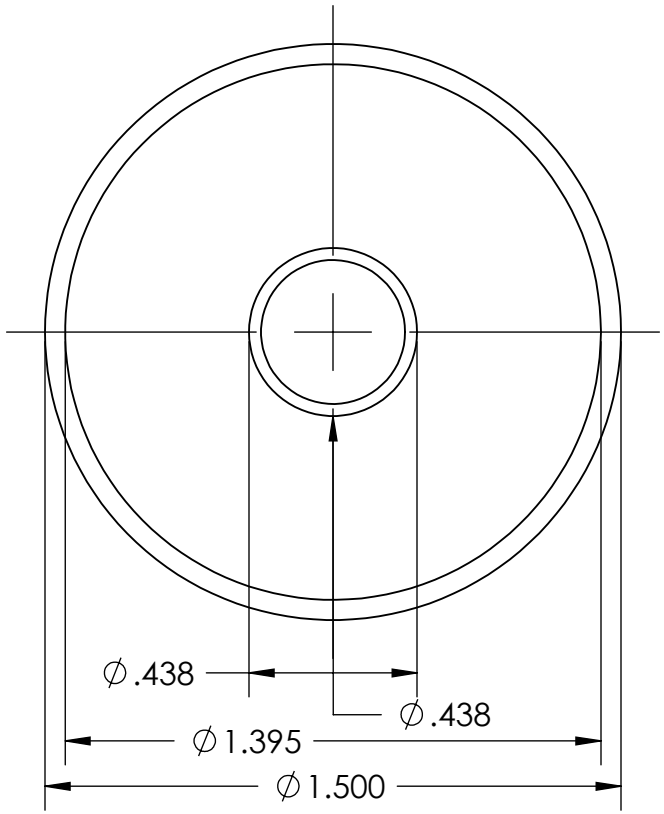
	MATERIAL: Alloy Steel		
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Valve		**Odom's Inferno**
	CHECKED BY:	DATE:	
	DRAWN BY: Amrah Canul	DATE: 5/3/2011	PART #: 07-01 QTY: 4
	FILE NAME: 07-01 Valve.SLDPRT		SCALE: 1:2 SHEET: 2 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

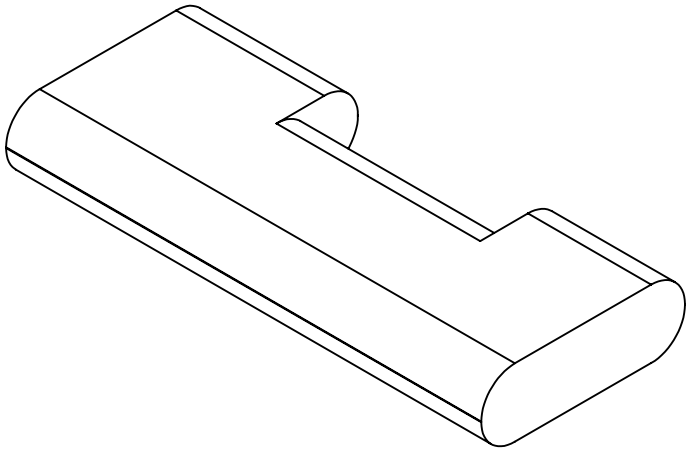
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

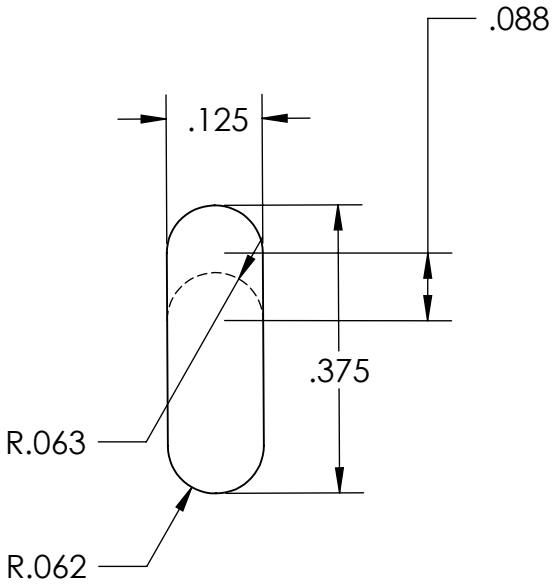
DESCRIPTION: Spring Plate
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 5/3/2011
FILE NAME: 07-02 Spring Plate.SLDPRT

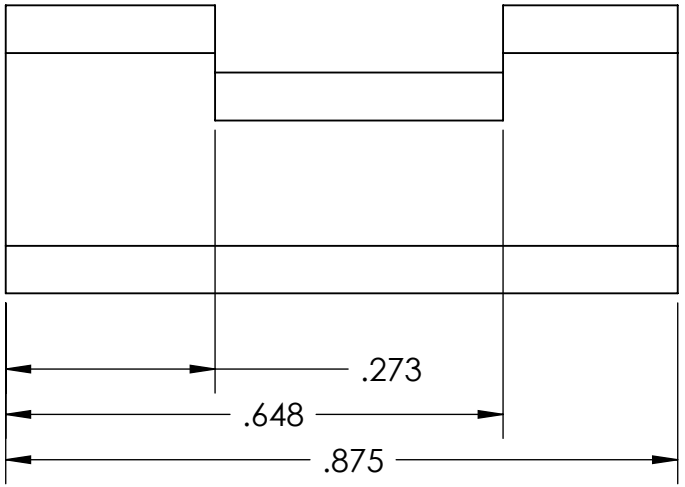
ME301 Spring 2011 Final Project
(The London Genltleman)

Odom's Inferno

PART #: 07-02 QTY: 4
SCALE: 2:1 SHEET: 3 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

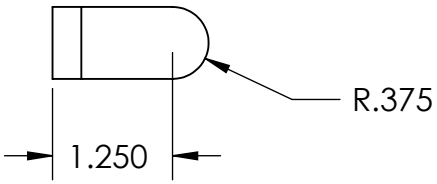
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

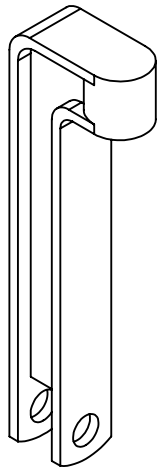
DESCRIPTION: Valve Cotter
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 5/5/2011
FILE NAME: 07-03 Valve Cotter.SLDPRT

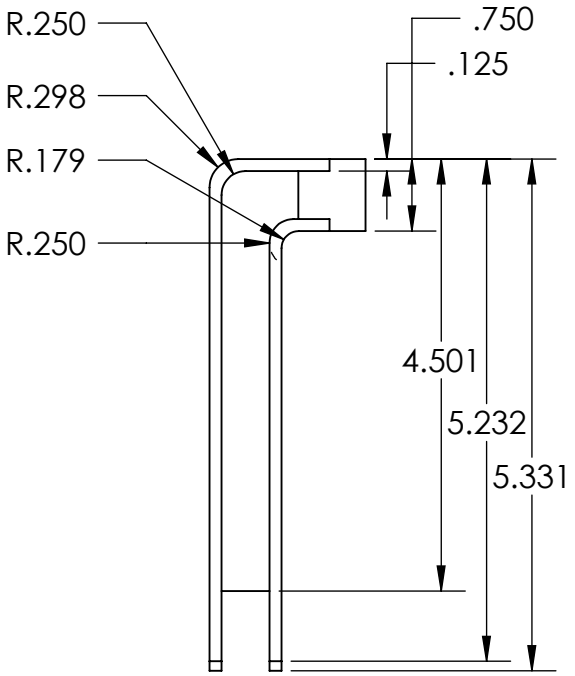
ME301 Spring 2011
Final Project
(The London Genltleman)

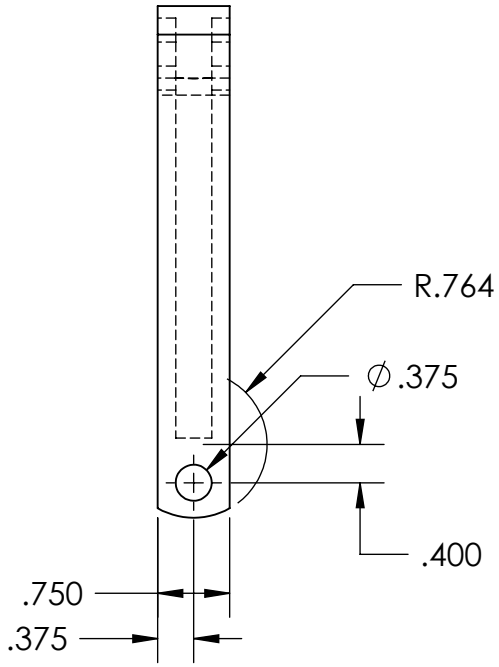
Odom's Inferno

PART #: 07-03 QTY: 8
SCALE: 4:1 SHEET: 4 OF 10









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Valve Lifter
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 4/28/2011
FILE NAME: 07-04 Valve Lifter.SLDPRT

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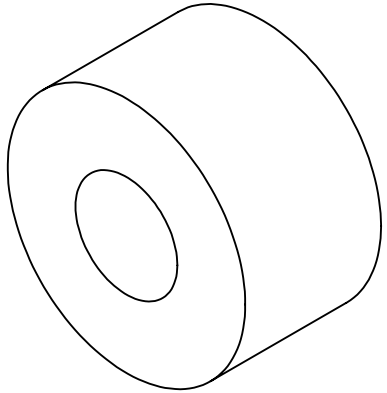
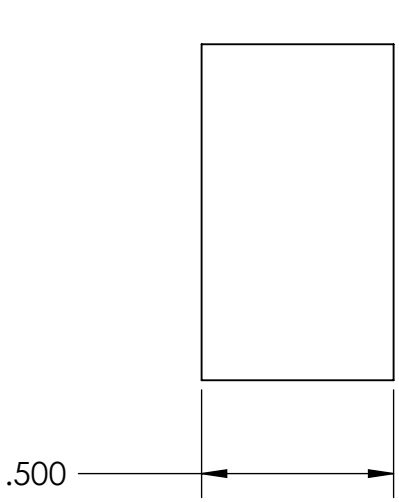
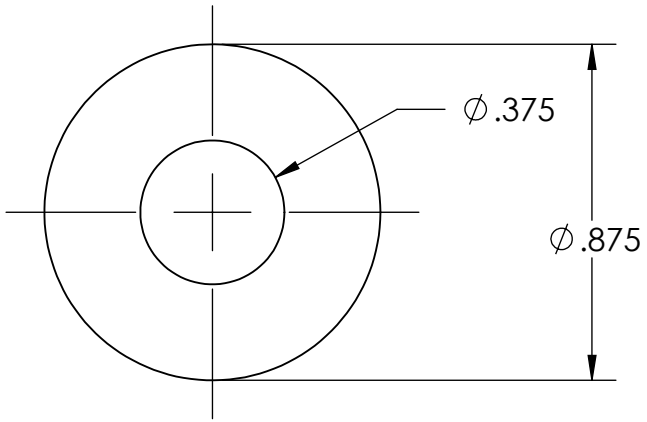
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 07-04 QTY: 8
SCALE: 1:2 SHEET: 5 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Hard Steel Roller
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 4/28/2011
FILE NAME: 07-05 Steel Roller.SLDPRT

ME301 Spring 2011
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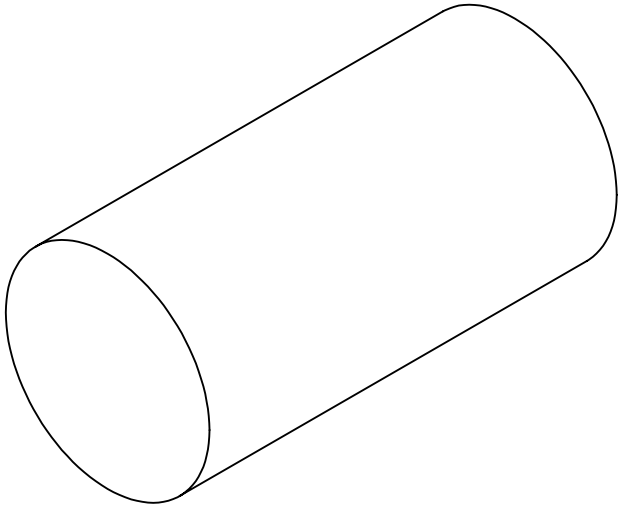
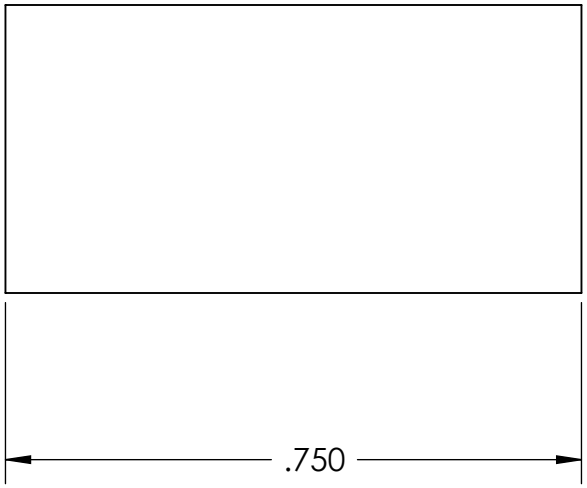
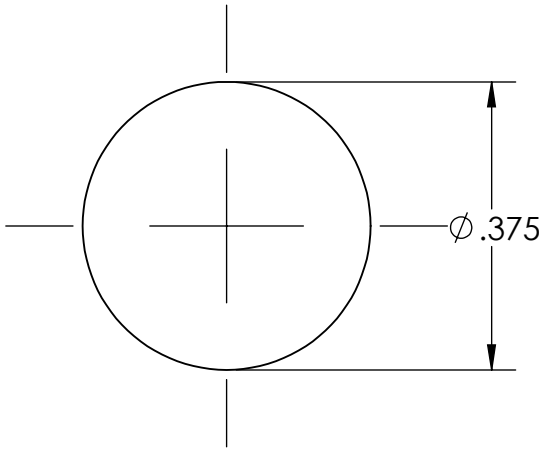
Odom's Inferno

PART #: 07-05 QTY: 8
SCALE: 2:1 SHEET: 6 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Pin

CHECKED BY: DATE:

DRAWN BY: Amrah Canul DATE: 4/28/2011

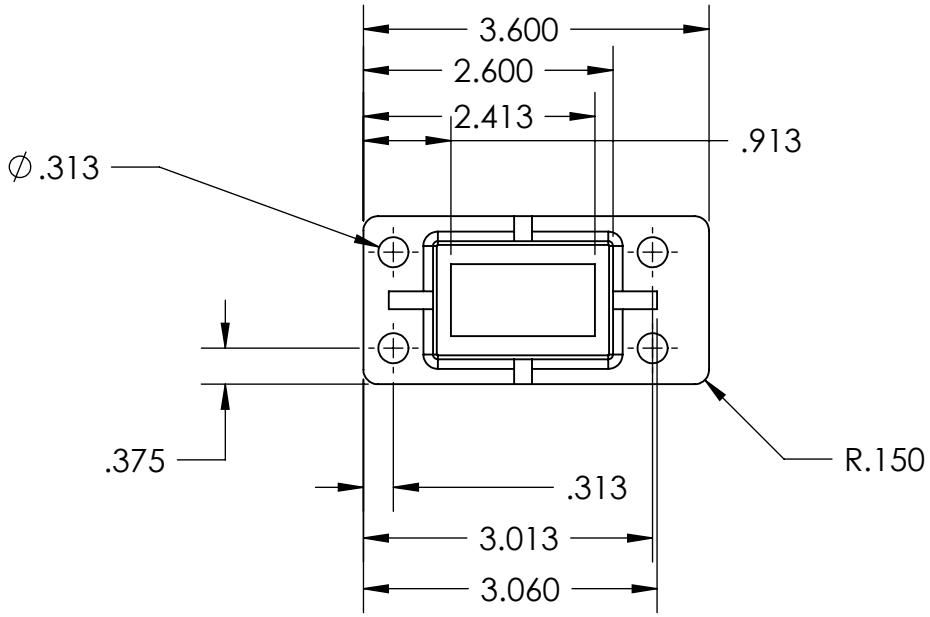
FILE NAME: 07-06 Valve Roller Pin.SLDPRT

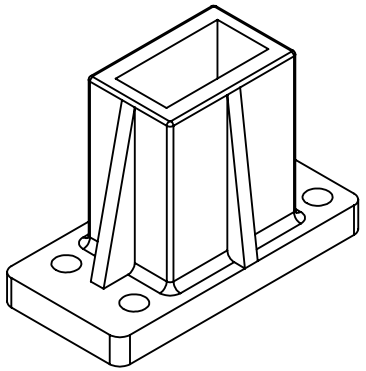
ME301 Spring 2011 Final Project
(The London Genltleman)

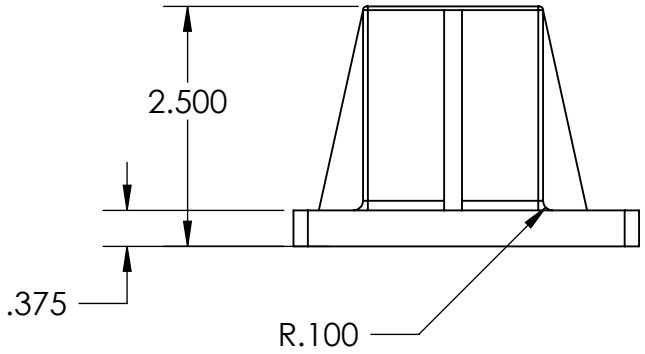
Odom's Inferno

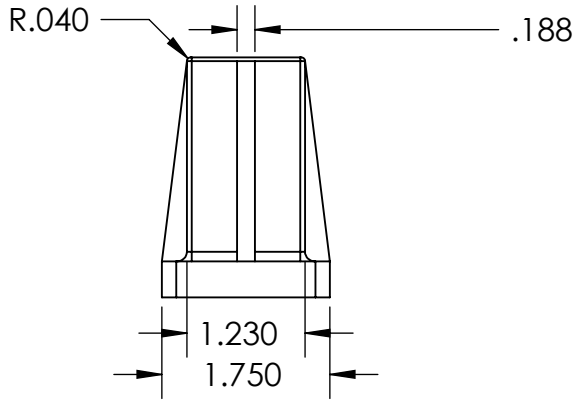
PART #: 07-06 QTY: 8

SCALE: 4:1 SHEET: 7 OF 10









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Lifter Guide
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 5/3/2011
FILE NAME: 07-07 Lifter Guide.SLDPRT

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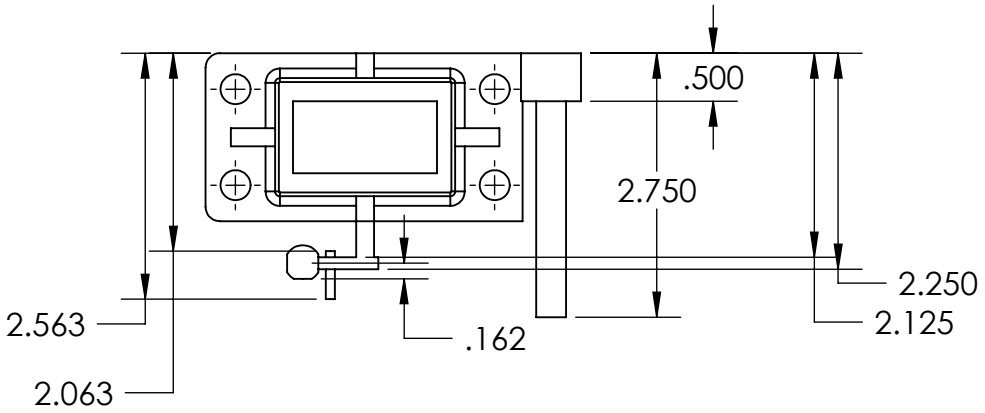
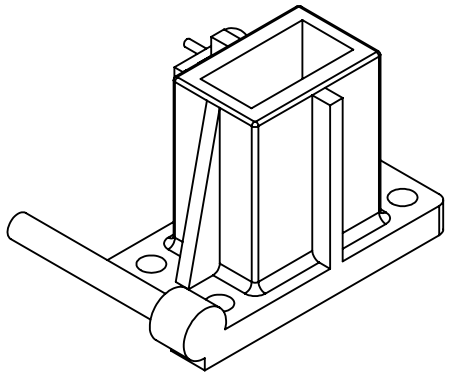
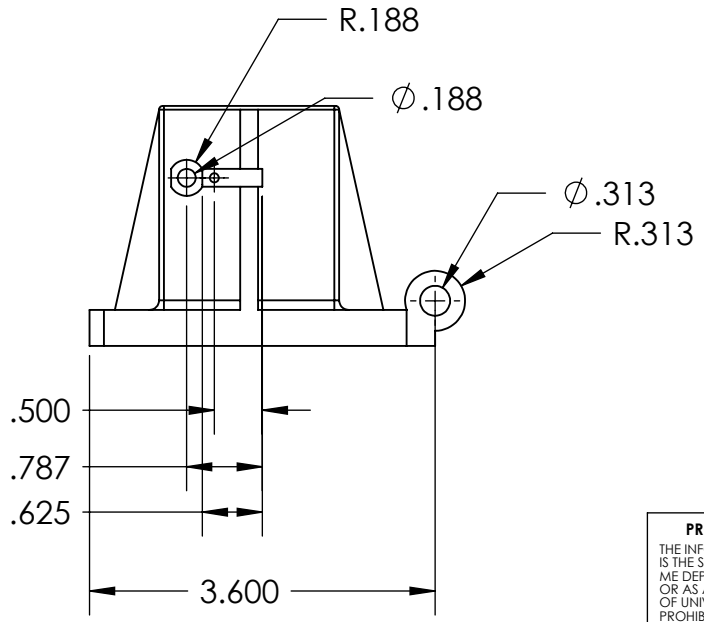
Odom's Inferno

PART #: 07-07 QTY: 2
SCALE: 1:2 SHEET: 8 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

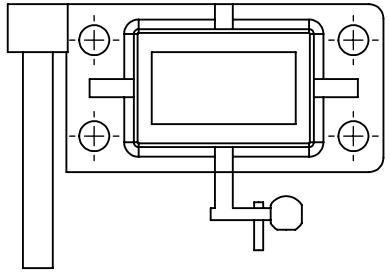
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

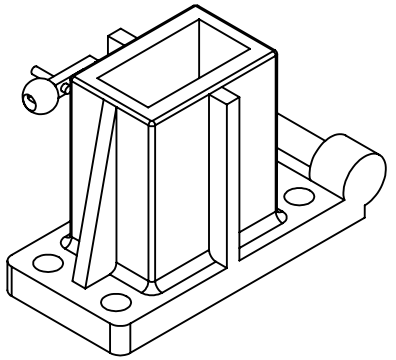
DESCRIPTION: Lifter Guide L
CHECKED BY: DATE:
DRAWN BY: Amrah Canul DATE: 5/3/2011
FILE NAME: 07-09 Lifter Guide 2L.SLDPRT

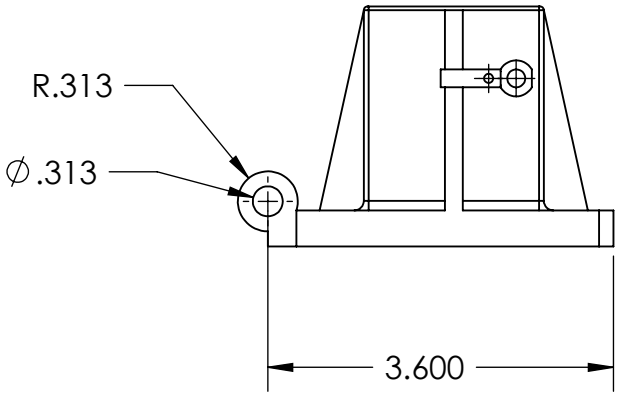
ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 07-09 QTY: 1
SCALE: 1:2 SHEET: 9 OF 10







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Lifter Guide R

CHECKED BY: DATE:

DRAWN BY: Amrah Canul DATE: 5/3/2011

FILE NAME: 07-10 Lifter Guide 2R.SLDPRT

ME301 Spring 2011
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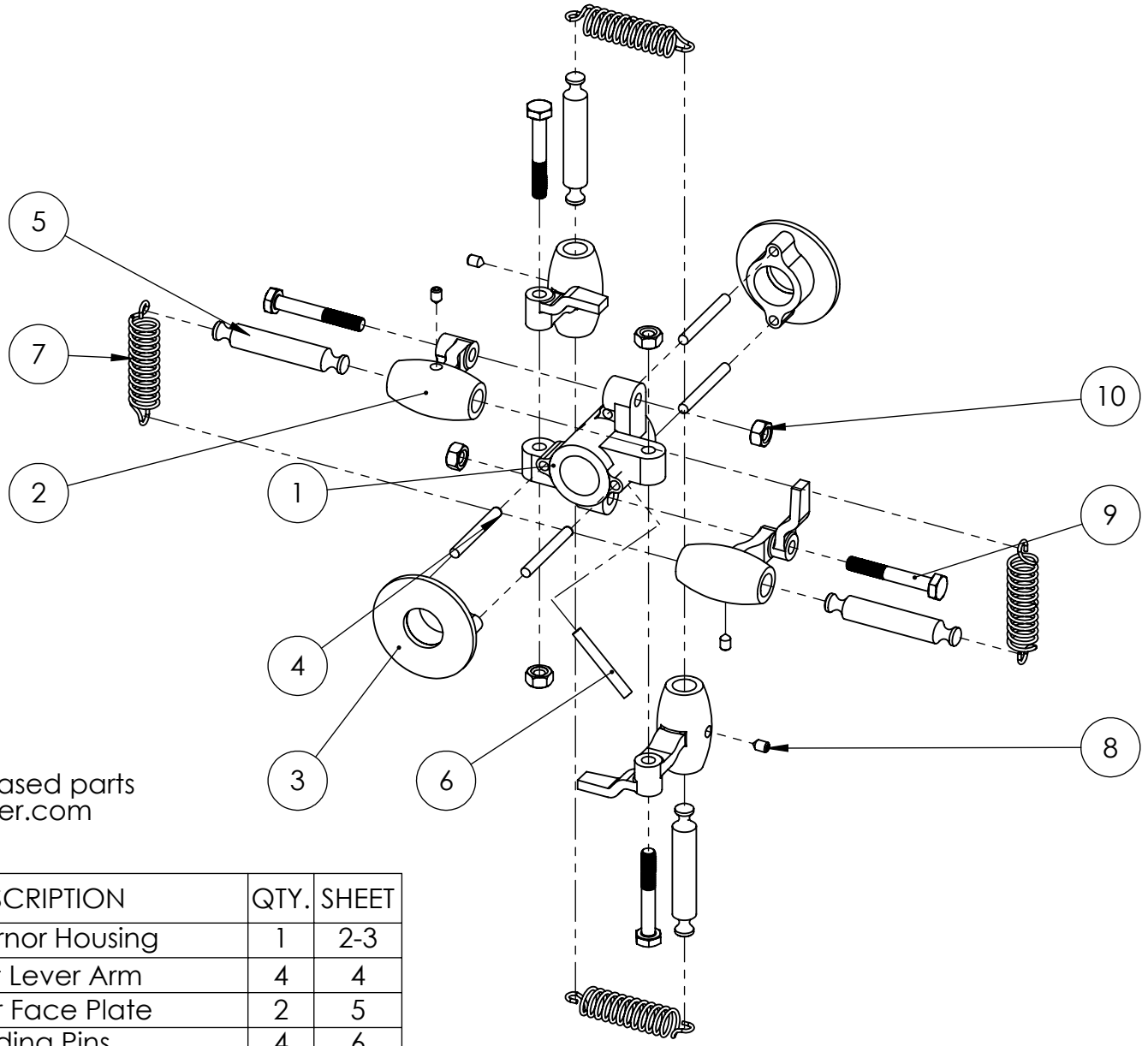
(The London Genltleman)

Odom's Inferno

PART #: 07-10 QTY: 1

SCALE: 1:2 SHEET: 10 OF 10



Note: Part numbers for purchased parts are referenced from McMaster.com

ITEM NO.	PartNo	DESCRIPTION	QTY.	SHEET
1	08-01	Governor Housing	1	2-3
2	08-02	Pivot Lever Arm	4	4
3	08-03	Outer Face Plate	2	5
4	08-04	Sliding Pins	4	6
5	08-05	Spring Rods	4	7
6	08-06	Camshaft through pin	1	8
7	9433K47	Spring	4	
8	90778A227	Spring rod set screw	4	
9	91286A143	Pivot arm bolt	4	
10	90499A805	Bolt nuts	4	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Covernor Assembly
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 5/3/2011
FILE NAME: Assembly 08-00.SLDPRT

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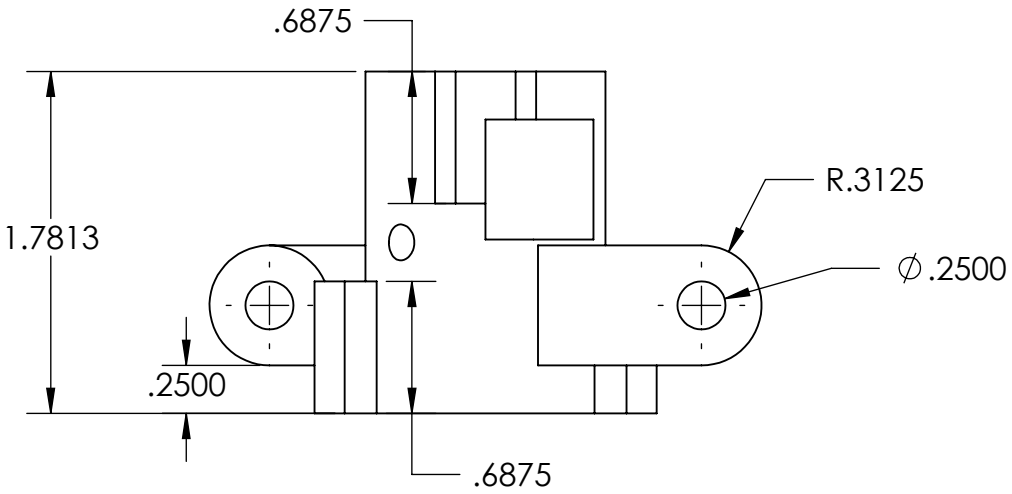
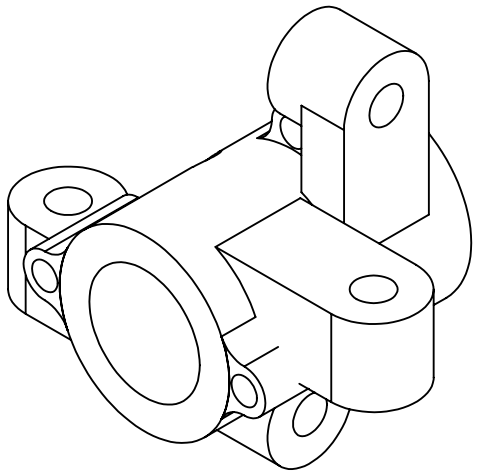
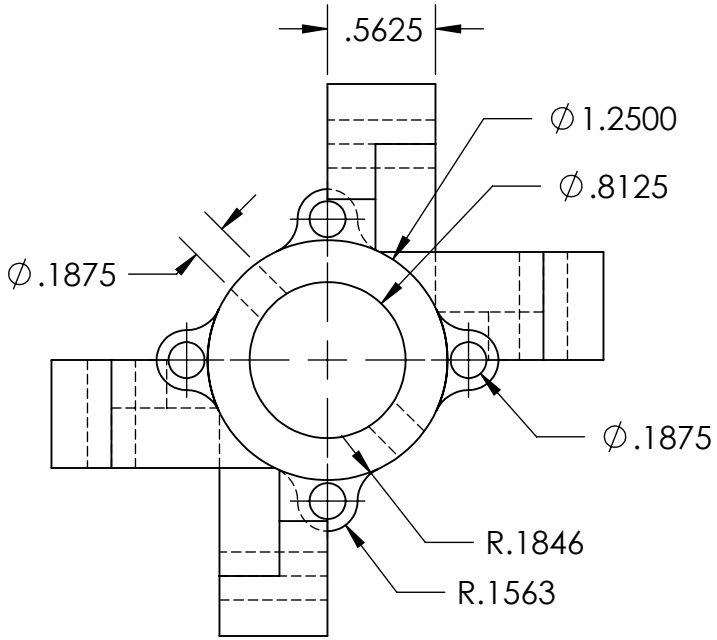
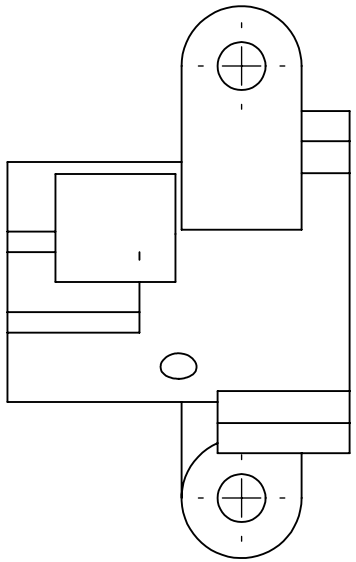
PART #: 08-00 QTY: 01
SCALE: 1:3 SHEET: 1 OF 8









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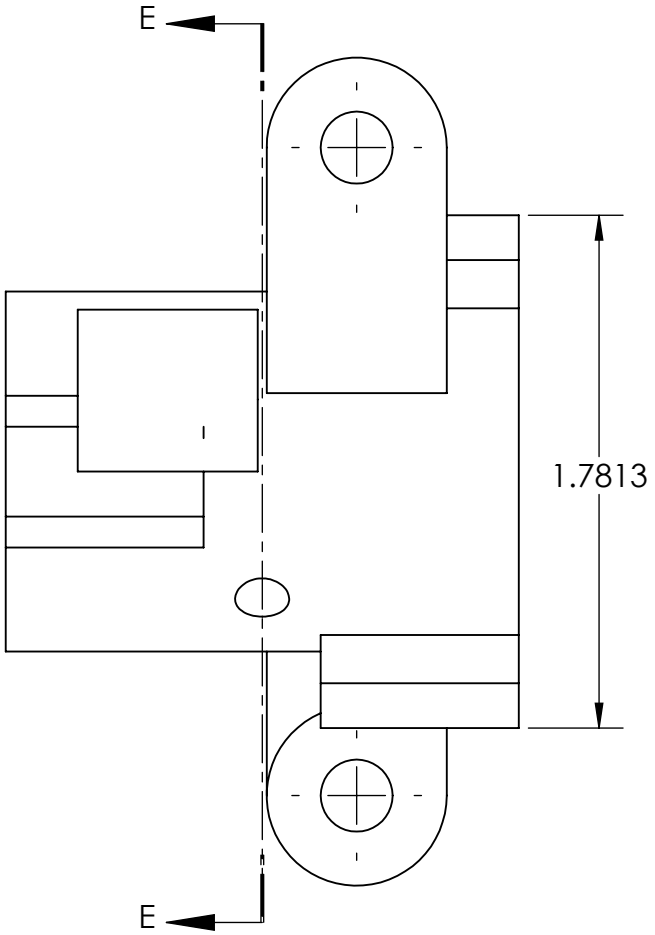
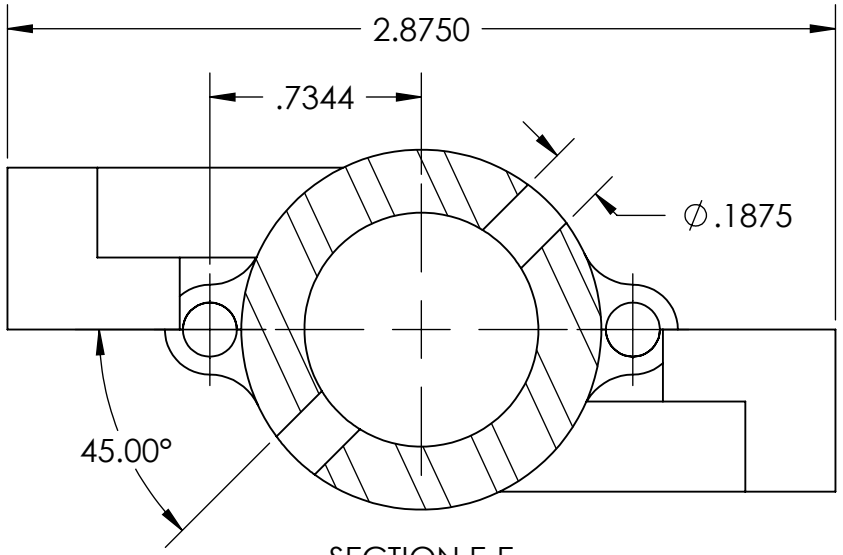
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Governor Housing CHECKED BY:	DATE:	**Odom's Inferno**
	DRAWN BY: Vincent Colson	DATE: 5/3/2011	PART #: 08-01 / QTY: 1
	FILE NAME: Housing.SLDPRT		SCALE: 1:1 / SHEET: 2 OF 8





SECTION E-E

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

DEFAULT TOLERANCES:

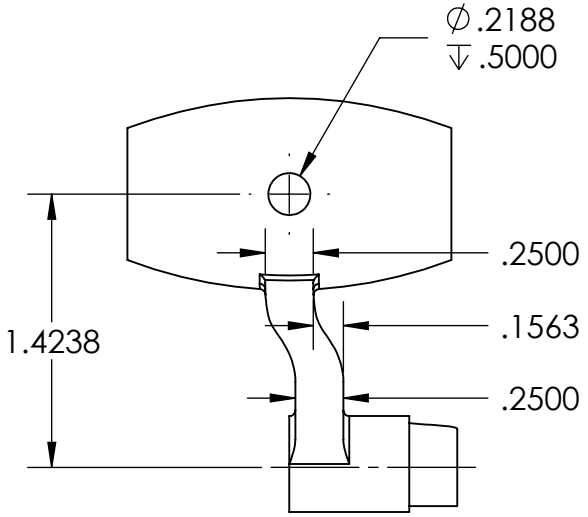
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

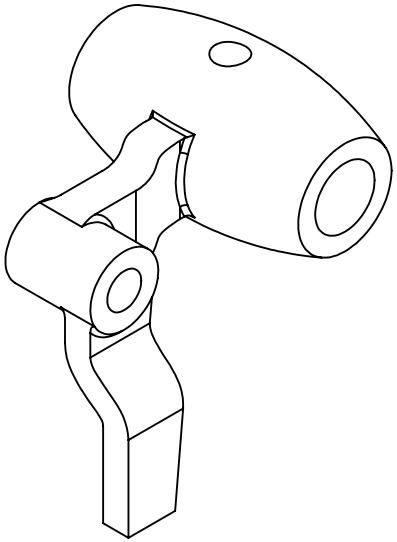
DESCRIPTION: Governor Housing
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 5/3/2011
FILE NAME: Housing.SLDPRT

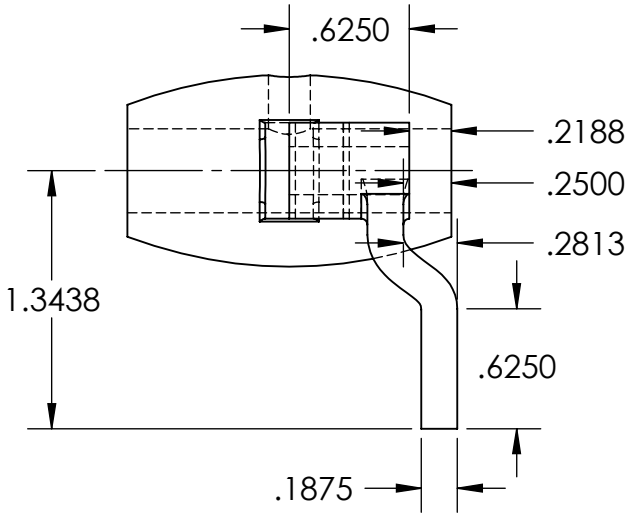
ME301 Spring 2011 Final Project
(The London Genltleman)

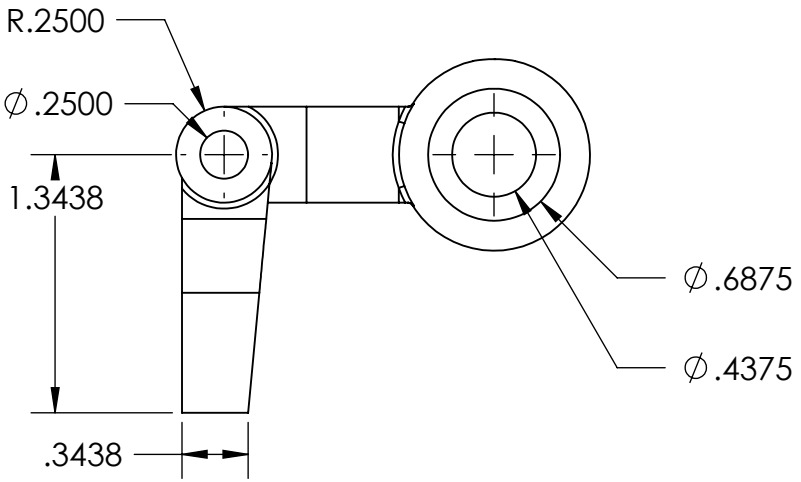
Odom's Inferno

PART #: 08-01 QTY: 1
SCALE: 3:2 SHEET: 3 OF 8









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

DEFAULT TOLERANCES:

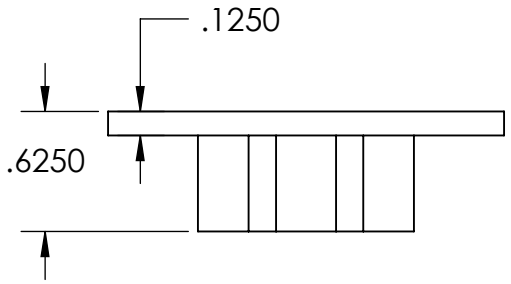
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

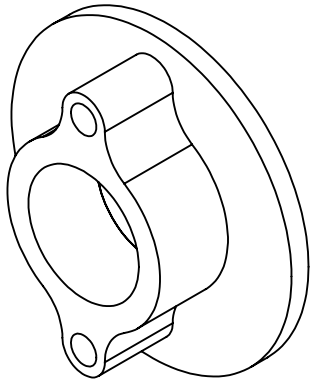
DESCRIPTION: Pivot Lever Arm
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 5/3/2011
FILE NAME: Pivot Lever.SLDPRT

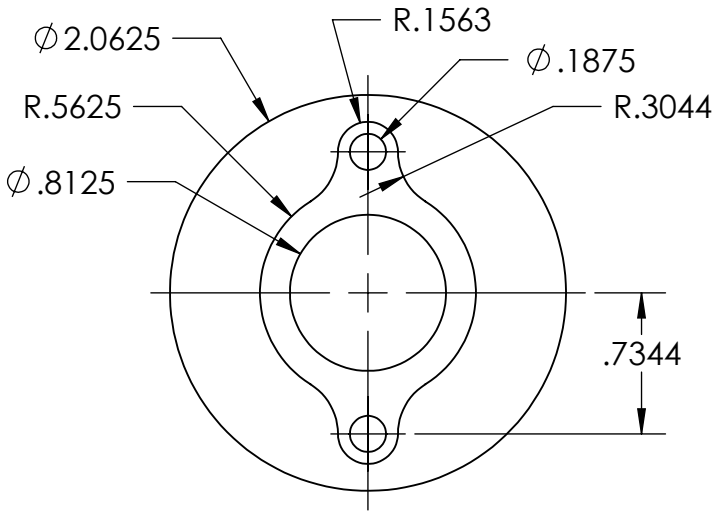
ME301 Spring 2011 Final Project
(The London Genltleman)

Odom's Inferno

PART #: 08-02 QTY: 4
SCALE: 1:1 SHEET: 4 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Outer Face Plate
CHECKED BY:
DATE:
DRAWN BY: Vincent Colson
DATE: 4/23/2011
FILE NAME: Outer Shell.SLDPRT

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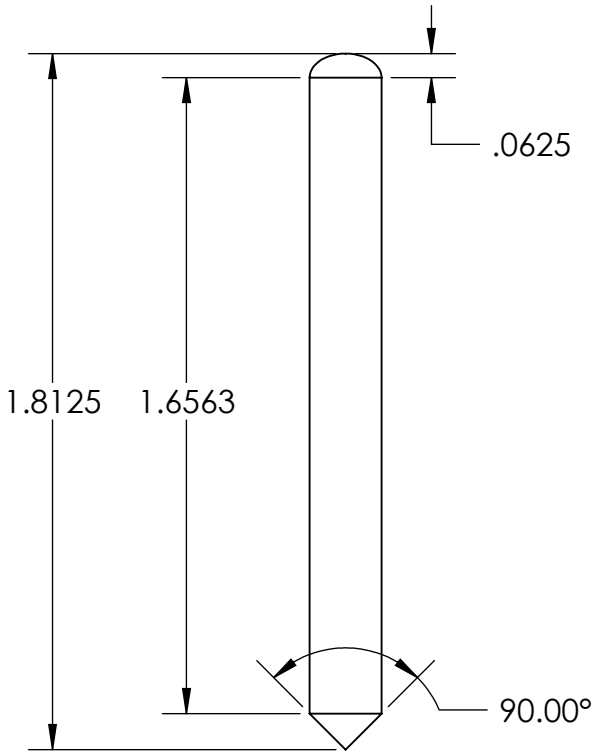
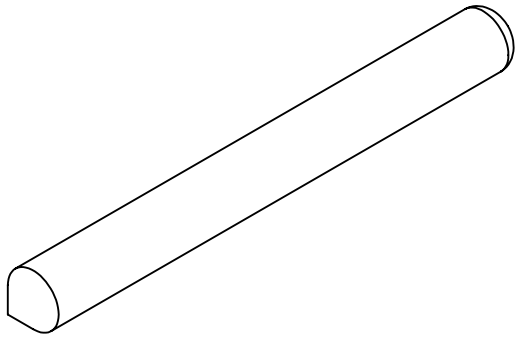
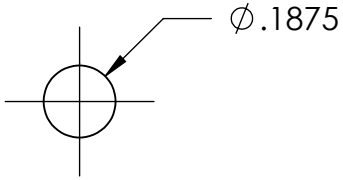
(The London Genltleman)

Odom's Inferno

PART #: 08-03
QTY: 2
SCALE: 1:1
SHEET: 5 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Sliding Pins
CHECKED BY:
DATE:
DRAWN BY: Vincent Colson
DATE: 4/23/2011
FILE NAME: Steel Pins.SLDPRT

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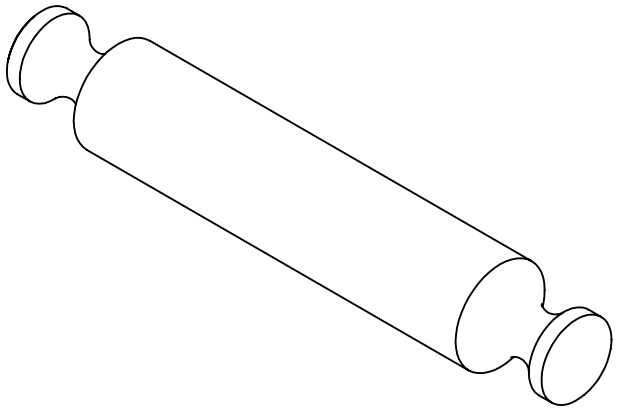
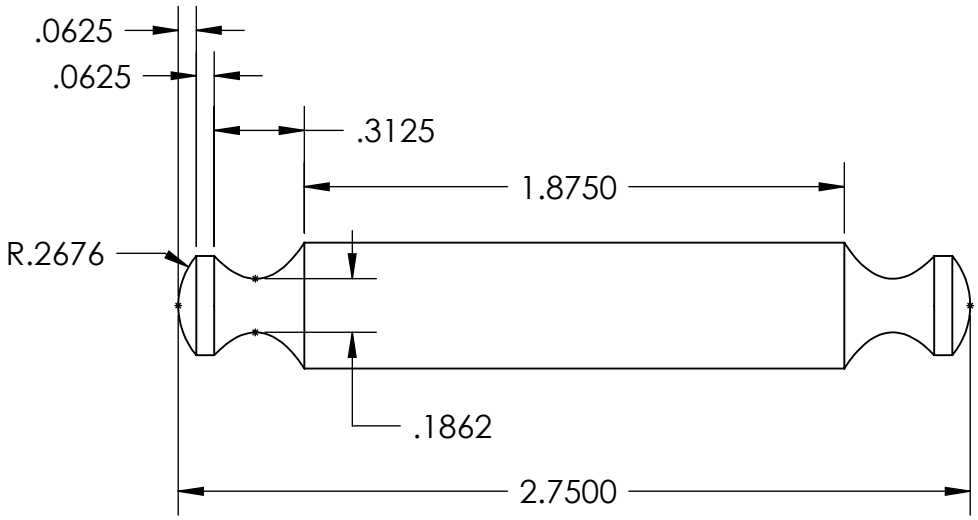
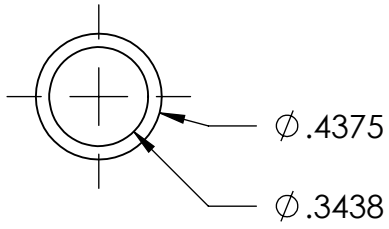
(The London Genltleman)

Odom's Inferno

PART #: 08-04
QTY: 4
SCALE: 2:1
SHEET: 6 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Spring Rods

CHECKED BY:

DATE:

DRAWN BY: Vincent Colson

DATE: 4/23/2011

FILE NAME: Spring Rod.SLDPRT

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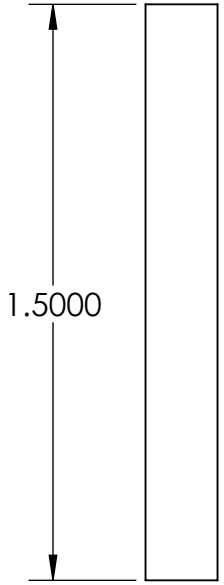
Odom's Inferno

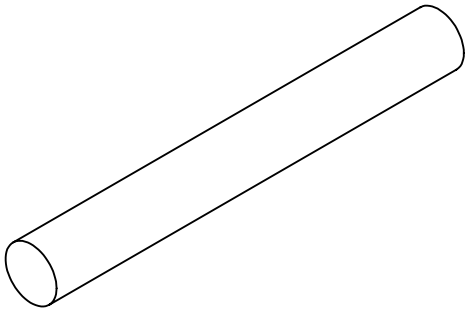
PART #: 08-05

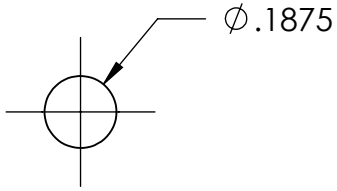
QTY: 4

SCALE: 3:2

SHEET: 7 OF 8







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: AISI 1020

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Camshaft through pin

CHECKED BY: DATE:

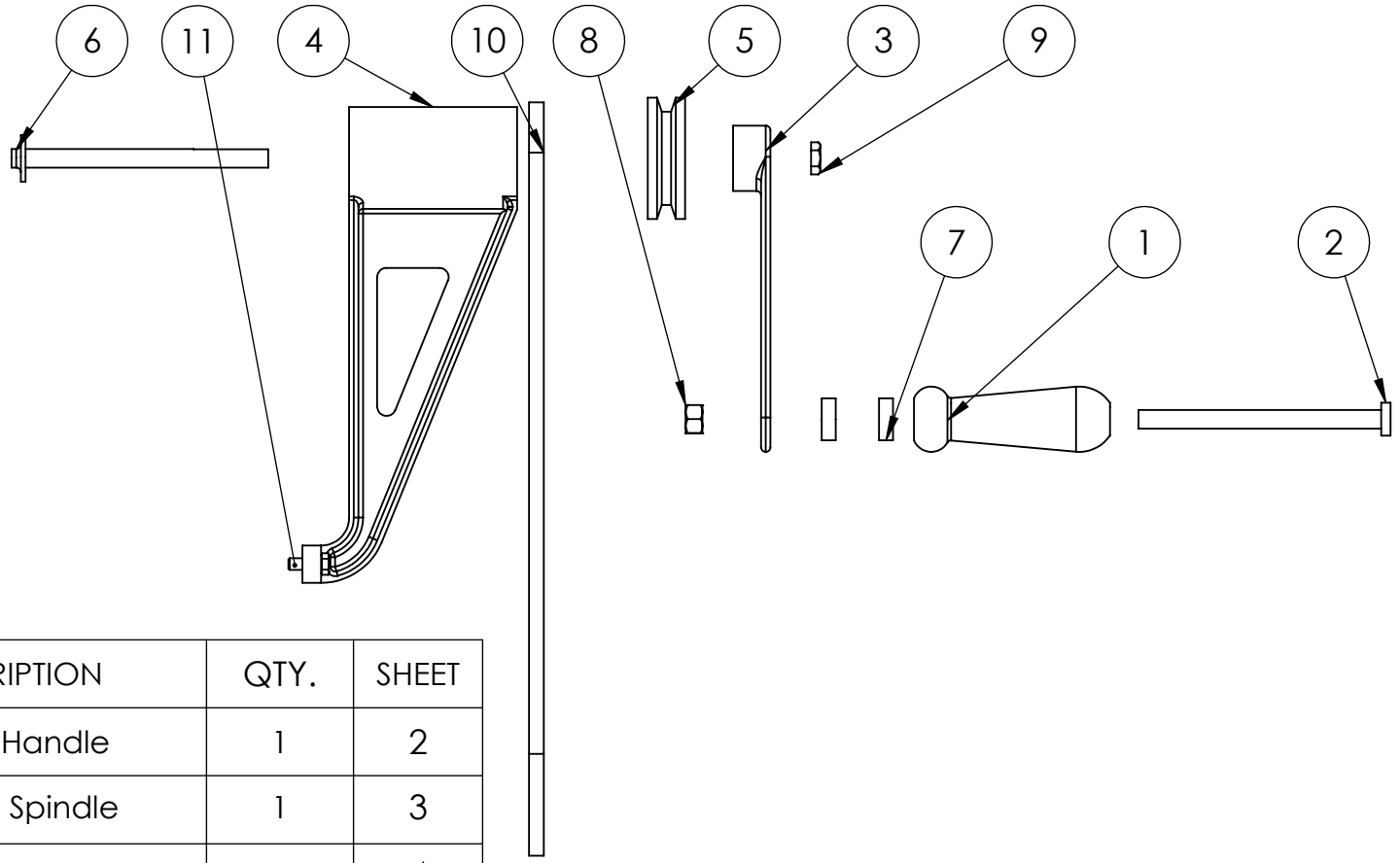
DRAWN BY: Vincent Colson DATE: 4/25/2011

FILE NAME: Through Pin.SLDPRT

Odom's Inferno

PART #: 08-06 QTY: 1

SCALE: 2:1 SHEET: 8 OF 8



ITEM NO.	PartNo	DESCRIPTION	QTY.	SHEET
1	09-01	Wood Handle	1	2
2	09-02	Handle Spindle	1	3
3	09-05	Starting Hand Crank	1	4
4	09-06	Hand Crank Bracket	1	5
5	09-07	Starter Pulley	1	6
6	09-08	Starting Crank Spindle	1	7
7		Handle Washer	2	
8		Hex Nut 1/2in x 13tpi	1	
9		Hex Nut 1/2in x 13tpi thin	1	
10		Staring Belt	1	
11		HFBOLT 0.3125-18x0.875x0.875-N	2	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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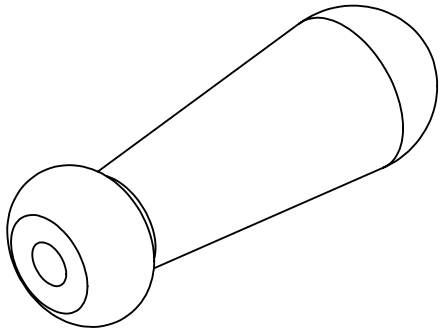
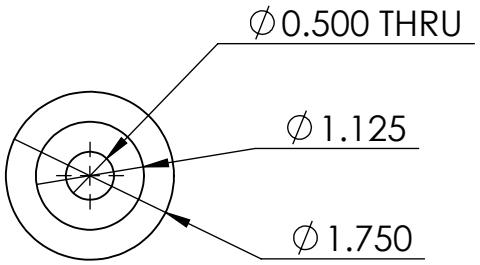
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

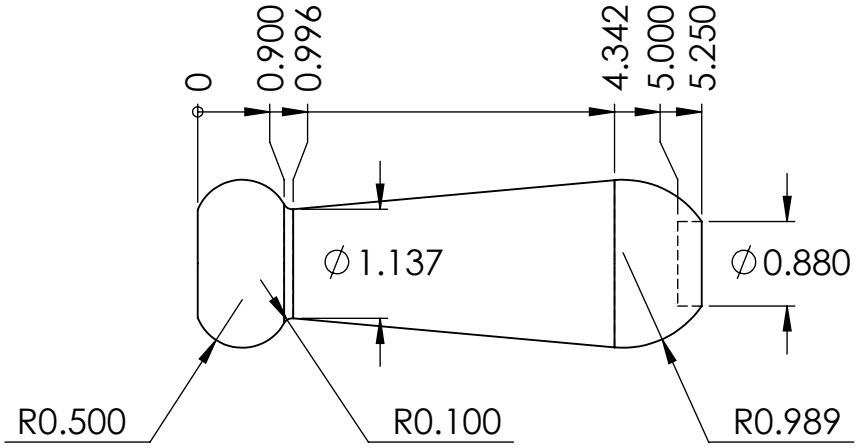
DESCRIPTION: Hand Crank Assembly
CHECKED BY:
DATE:
DRAWN BY: Ian Clarke
DATE: 5/4/2011
FILE NAME: 09-00 Hand Crank Assembly.SLDPRT

Odom's Inferno

PART #: 09-00
QTY: 01
SCALE: 1:5
SHEET: 1 OF 7







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Mahogany

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Wood Handle
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/19/2011
FILE NAME: 09-01 Wood Handle.SLDPRT

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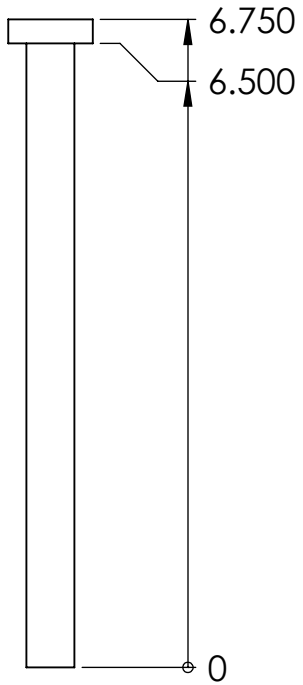
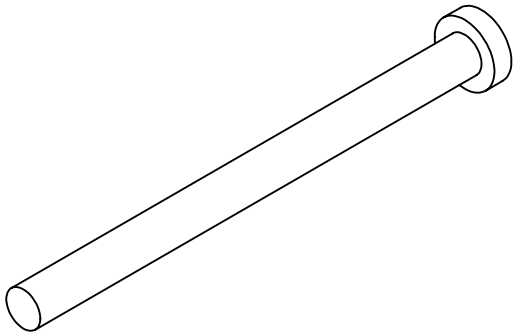
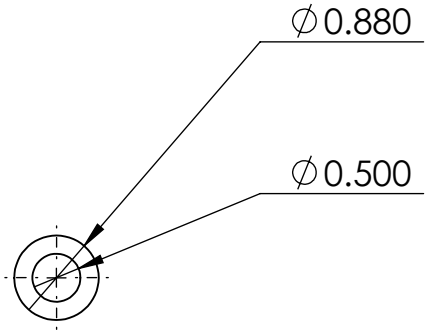
Odom's Inferno

PART #: 09-01 QTY: 01
SCALE: 1:3 SHEET: 2 OF 7







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Handle Spindle
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/25/2011
FILE NAME: 09-02 Handle Spindle.SLDPRT

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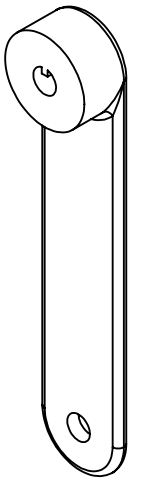
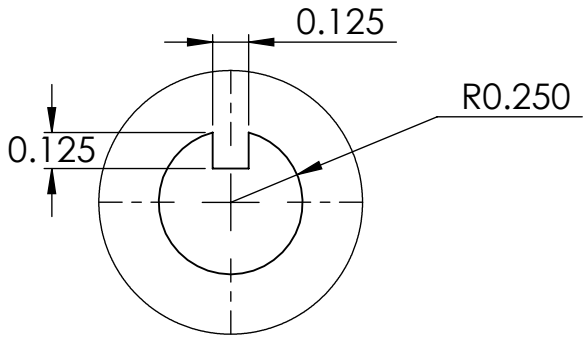
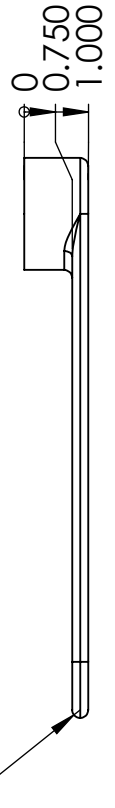
Odom's Inferno

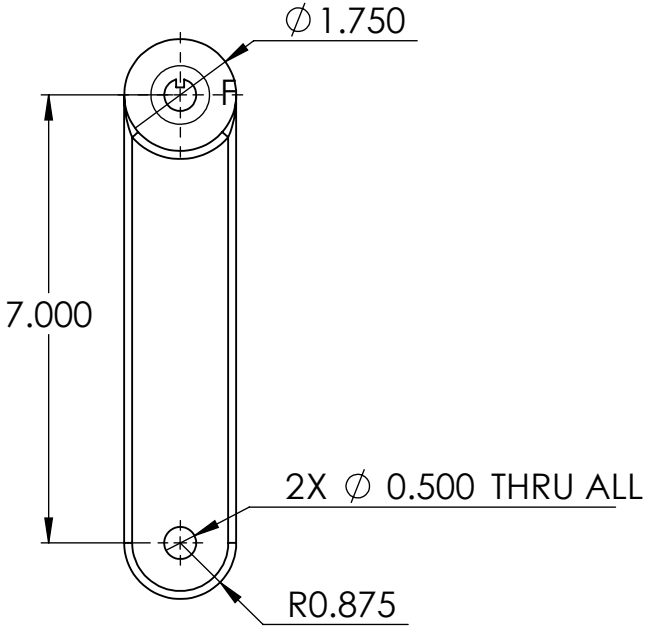
PART #: 09-02 QTY: 01
SCALE: 1:2 SHEET: 3 OF 7





DETAIL F
SCALE 1.5 : 1





ALL FILLETS
R0.125

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Starting Hand Crank
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/25/2011
FILE NAME: 09-05 Starting Hand Crank.SLDPRT

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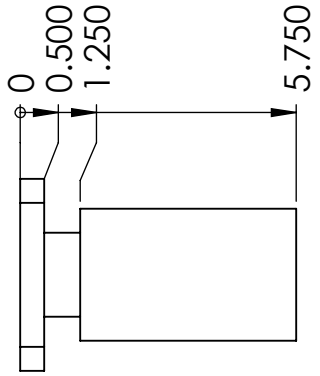
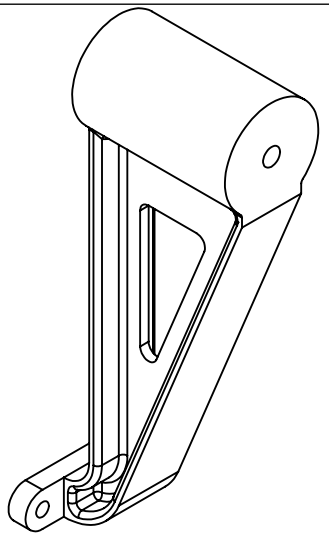
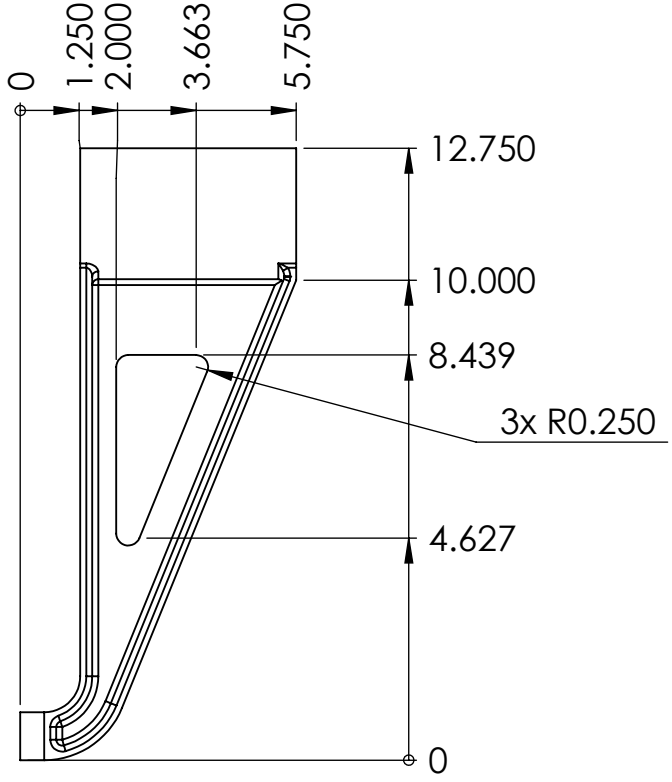
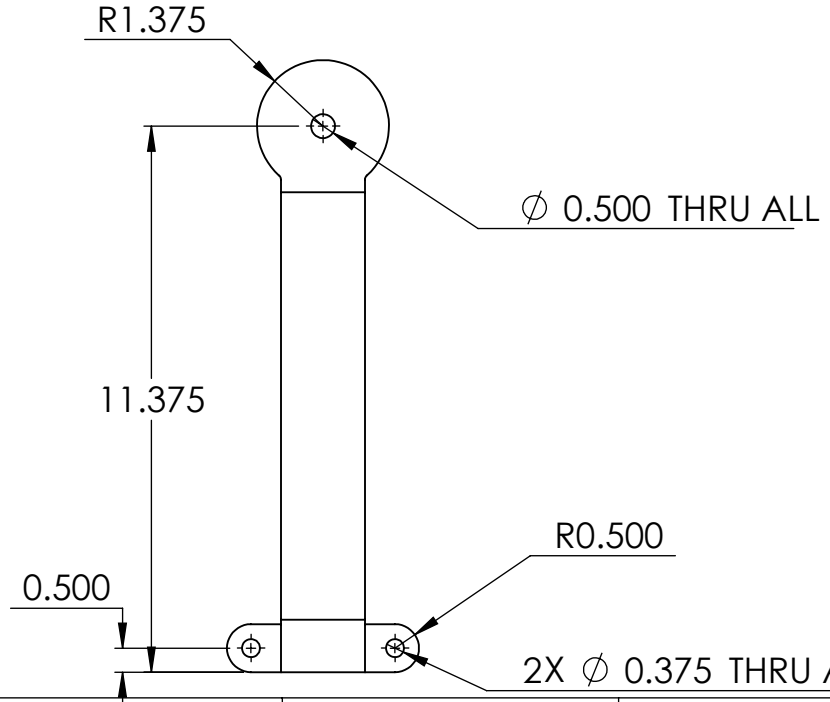
Odom's Inferno

PART #: 09-05 QTY: 01
SCALE: 1:3 SHEET: 4 OF 7









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Hand Crank Bracket

CHECKED BY: DATE:

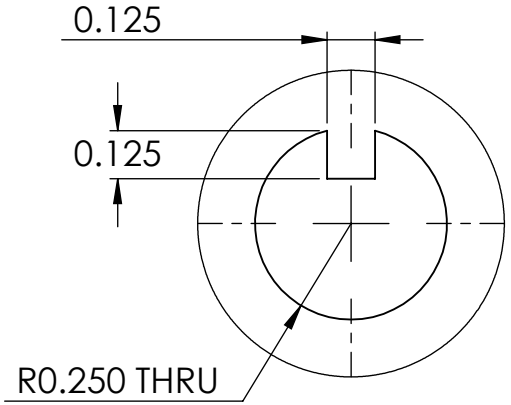
DRAWN BY: Ian Clarke DATE: 4/25/2011

FILE NAME: 09-06 Hand Crank Bracket.SLDPRT

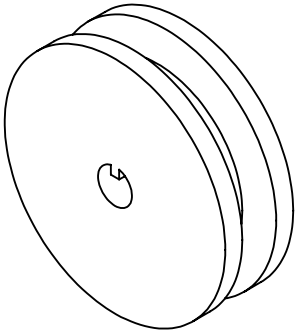
Odom's Inferno

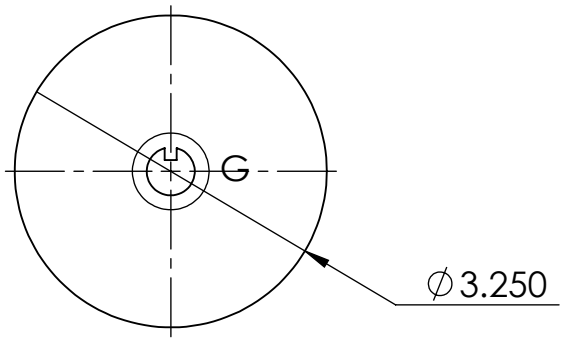
PART #: 09-06 QTY: 01

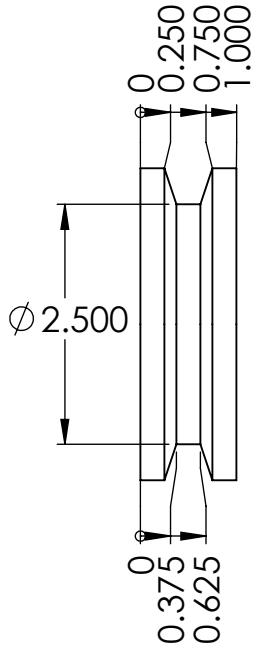
SCALE: 1:4 SHEET: 5 OF 7



DETAIL G
SCALE 2 : 1







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Starter Pulley
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/25/2011
FILE NAME: 09-07 Starter Pulley.SLDPRT

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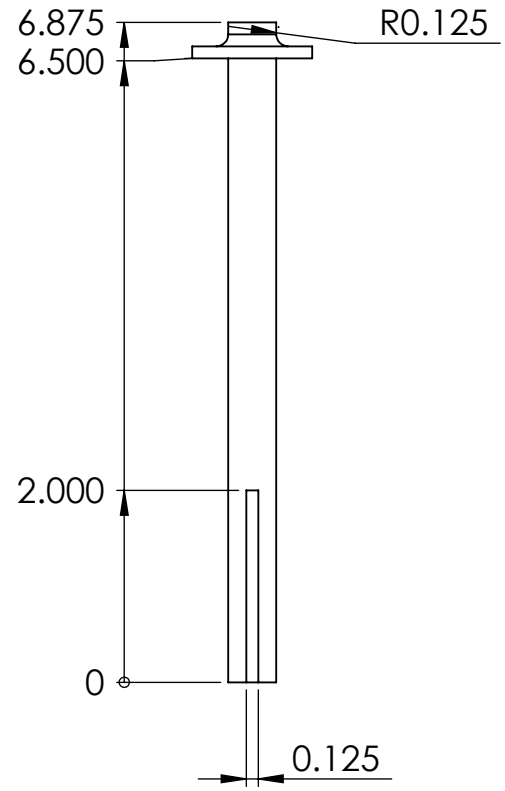
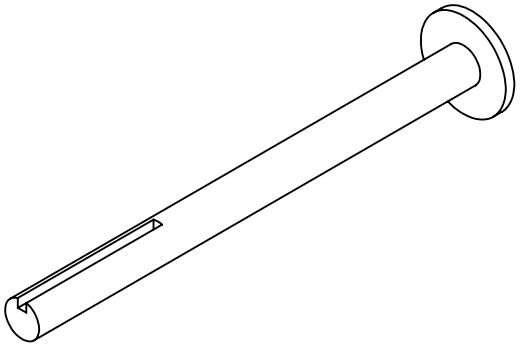
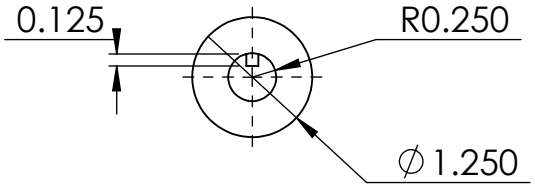
PART #: 09-07 QTY: 01
SCALE: 1:2 SHEET: 6 OF 7







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Starting Crank Spindle
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/26/2011
FILE NAME: 09-08 Starting Crank Spindle.SLDPRT

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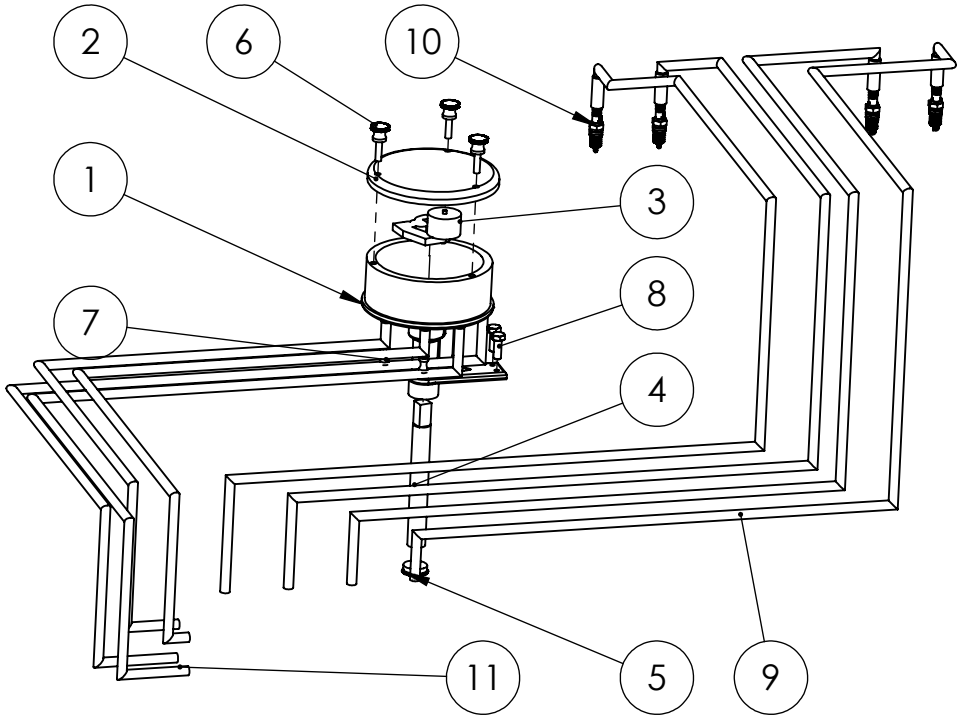
Odom's Inferno

PART #: 09-08 QTY: 01
SCALE: 1:2 SHEET: 7 OF 7



ITEM NO.	PartNo	DESCRIPTION	QTY.	SHEET
1	10-01	Commutator Body	1	2
2	10-02	Commutator Cover	1	3
3	10-03	Commutator Inner Workings	1	4
4	10-04	Drive Shaft	1	5
5	10-05	Camshaft Commutator Gear	1	
6		Thumb Skrew	3	
7		Connector Pin	4	
8		HFBOLT 0.3125-18x0.875x0.875-N	2	
9		Spark Plug Wires	1	
10		Kologi Platinum Spark Plugs	4	
11		Spark Plug Wires	1	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Varies

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Commutator Assembly
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/4/2011
FILE NAME: 10-00 Commutator Assembly.SLDPRT

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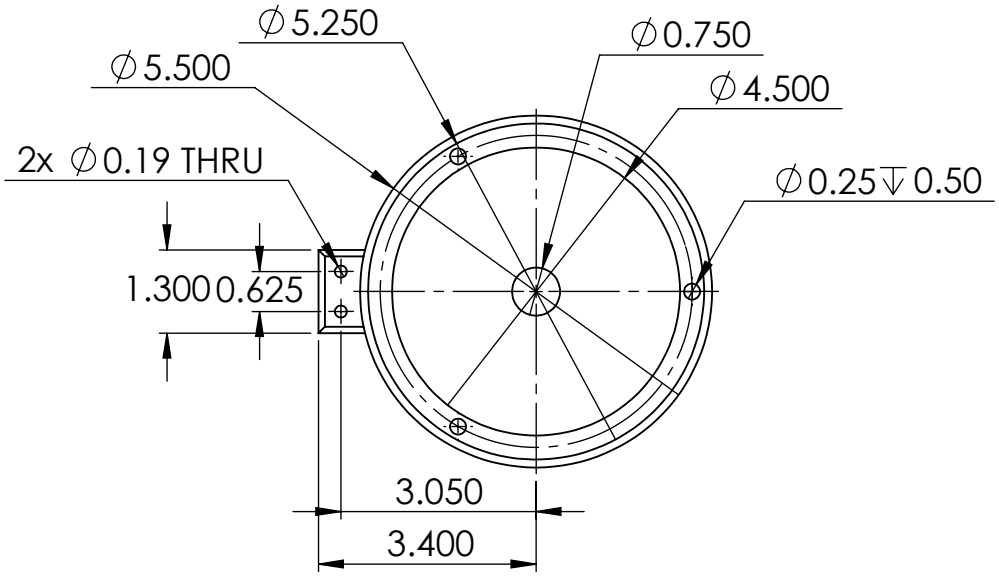
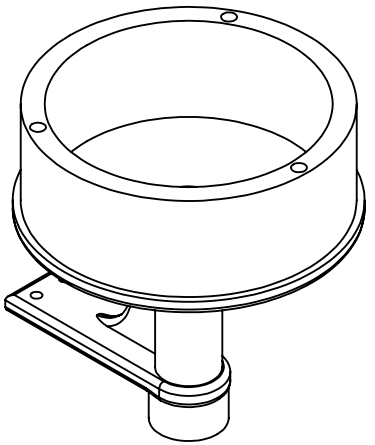
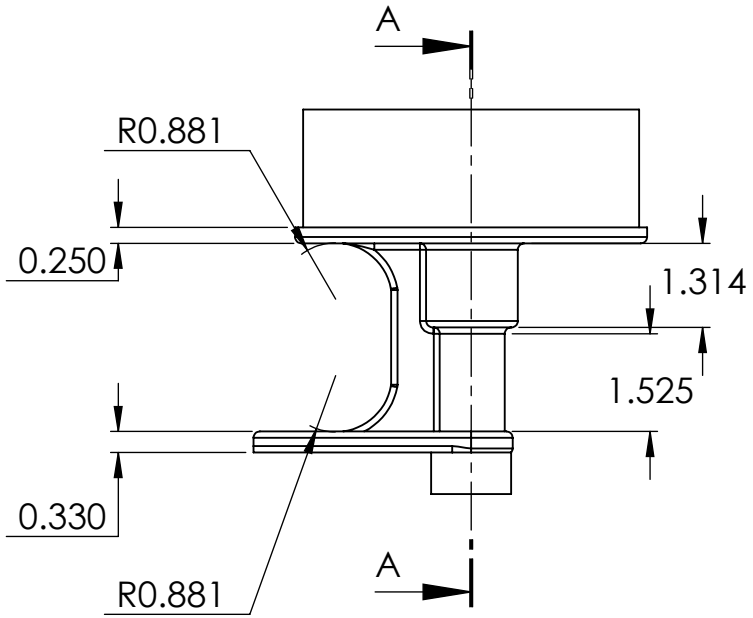
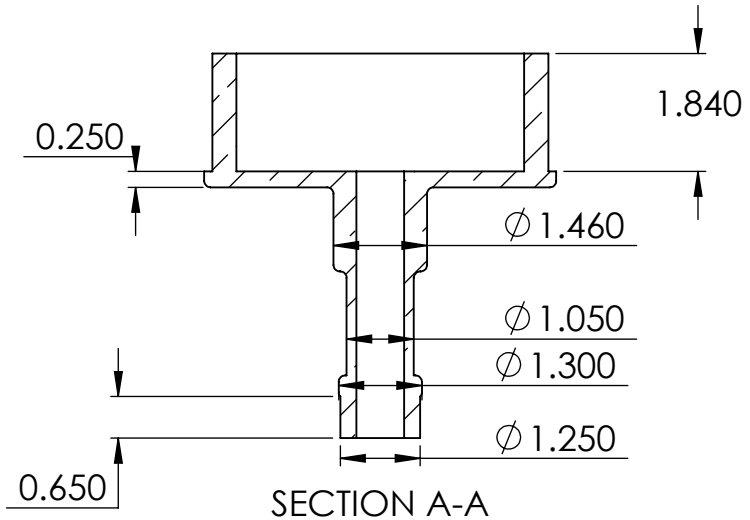
PART #: 10-00
QTY: 01
SCALE: 1:8
SHEET: 1 OF 5









SECTION A-A

NOTE: All Fillets are 0.100in

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Brass

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Commutator Body
CHECKED BY:
DATE:
DRAWN BY: Matthew Kologi
DATE: 5/3/2011
FILE NAME: 10-01 Commutator Body.SLDPRT

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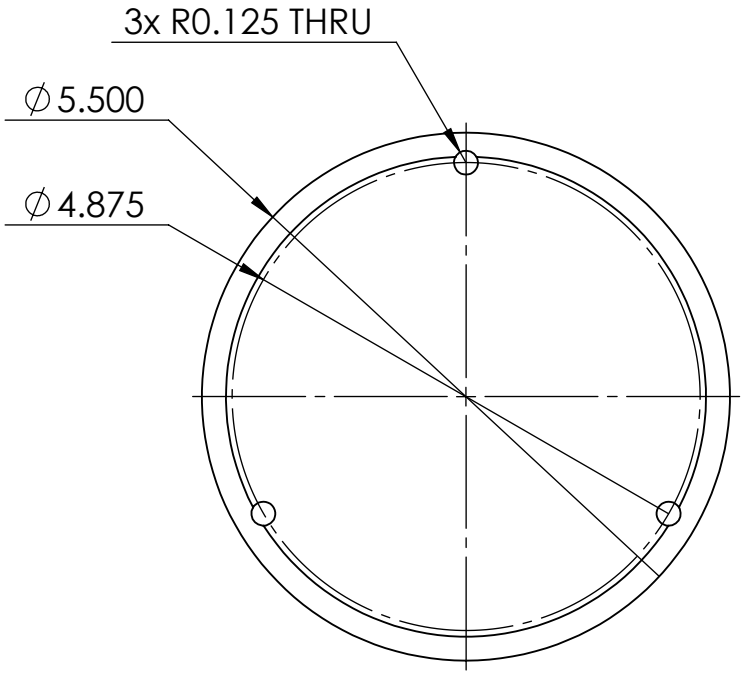
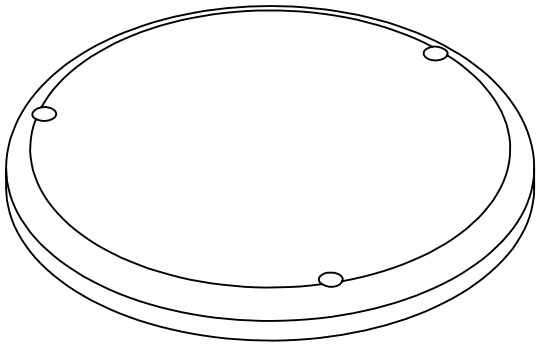
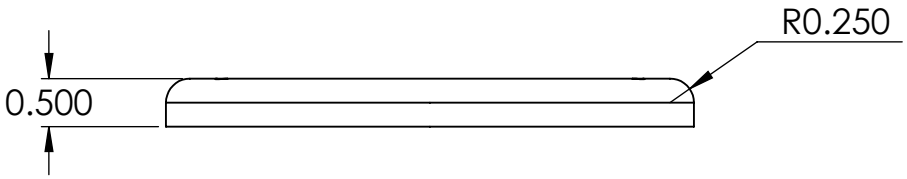
PART #: 10-01
QTY: 01
SCALE: 1:3
SHEET: 2 OF 5







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Glass

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Commutator Cover
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 10-02 Glass Cover.SLDPRT

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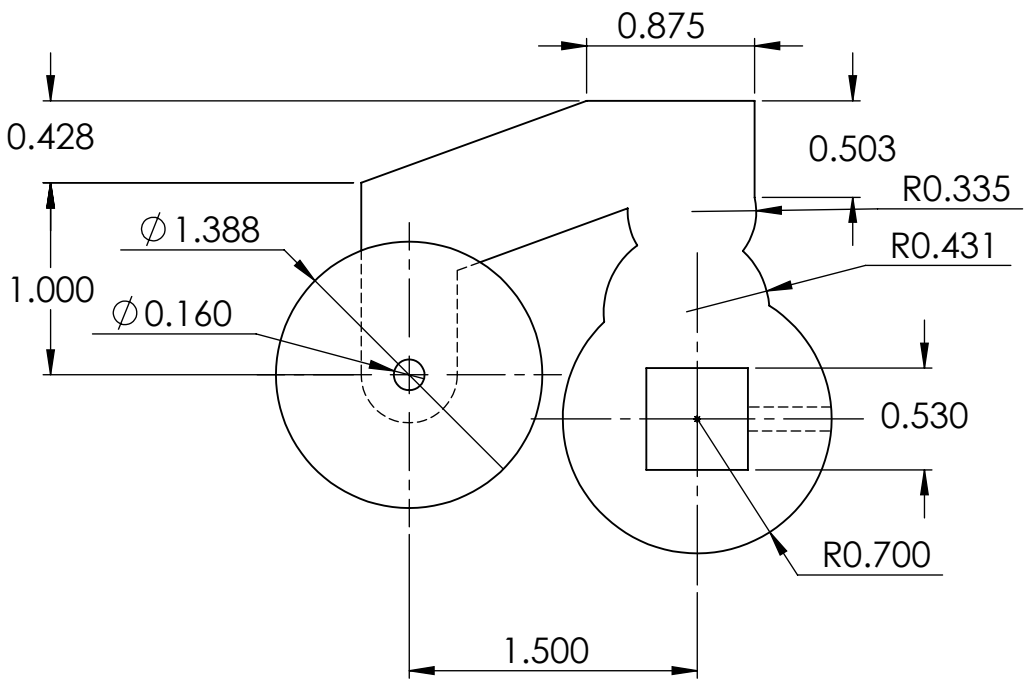
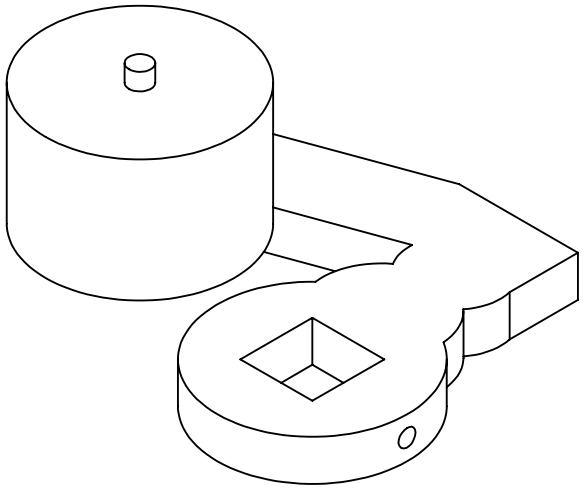
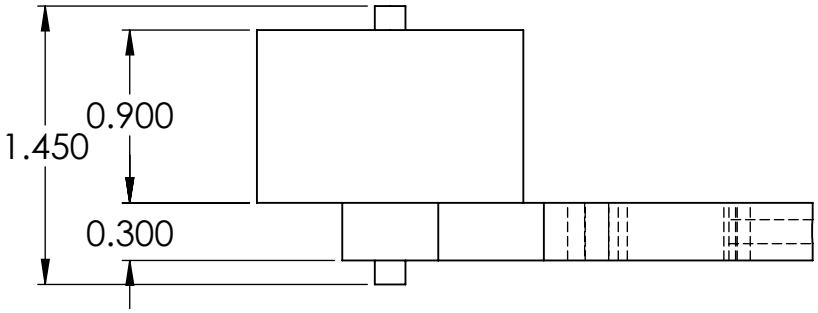
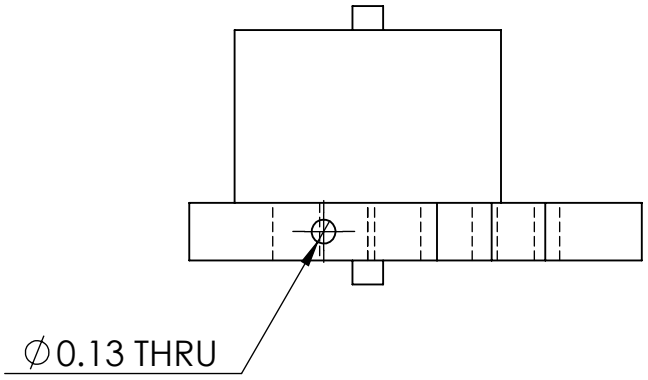
PART #: 10-02 QTY: 01
SCALE: 1:2 SHEET: 3 OF 5









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Varies

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Commutator Inner Workings
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 10-03 Inner Workings.SLDPRT

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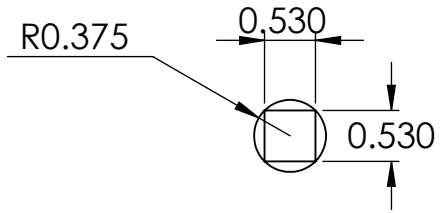
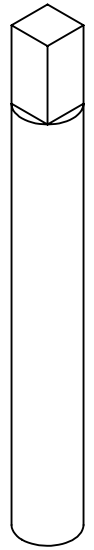
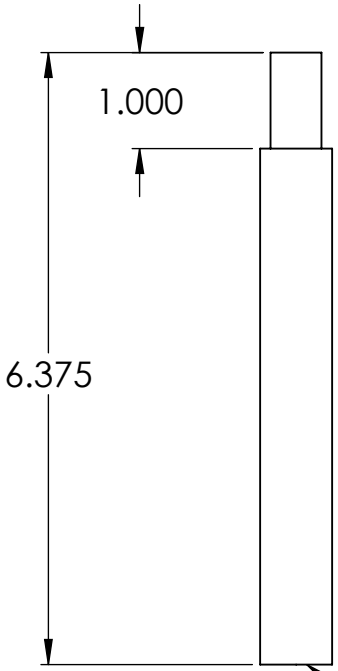
PART #: 10-03 QTY: 01
SCALE: 1:1 SHEET: 4 OF 5







NOTE: Commutator gear is braised onto the bottom and center of the shaft.

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Brass

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Drive Shaft
CHECKED BY: DATE:
DRAWN BY: Matthew Kologi DATE: 5/3/2011
FILE NAME: 10-04 Drive Shaft.SLDPRT

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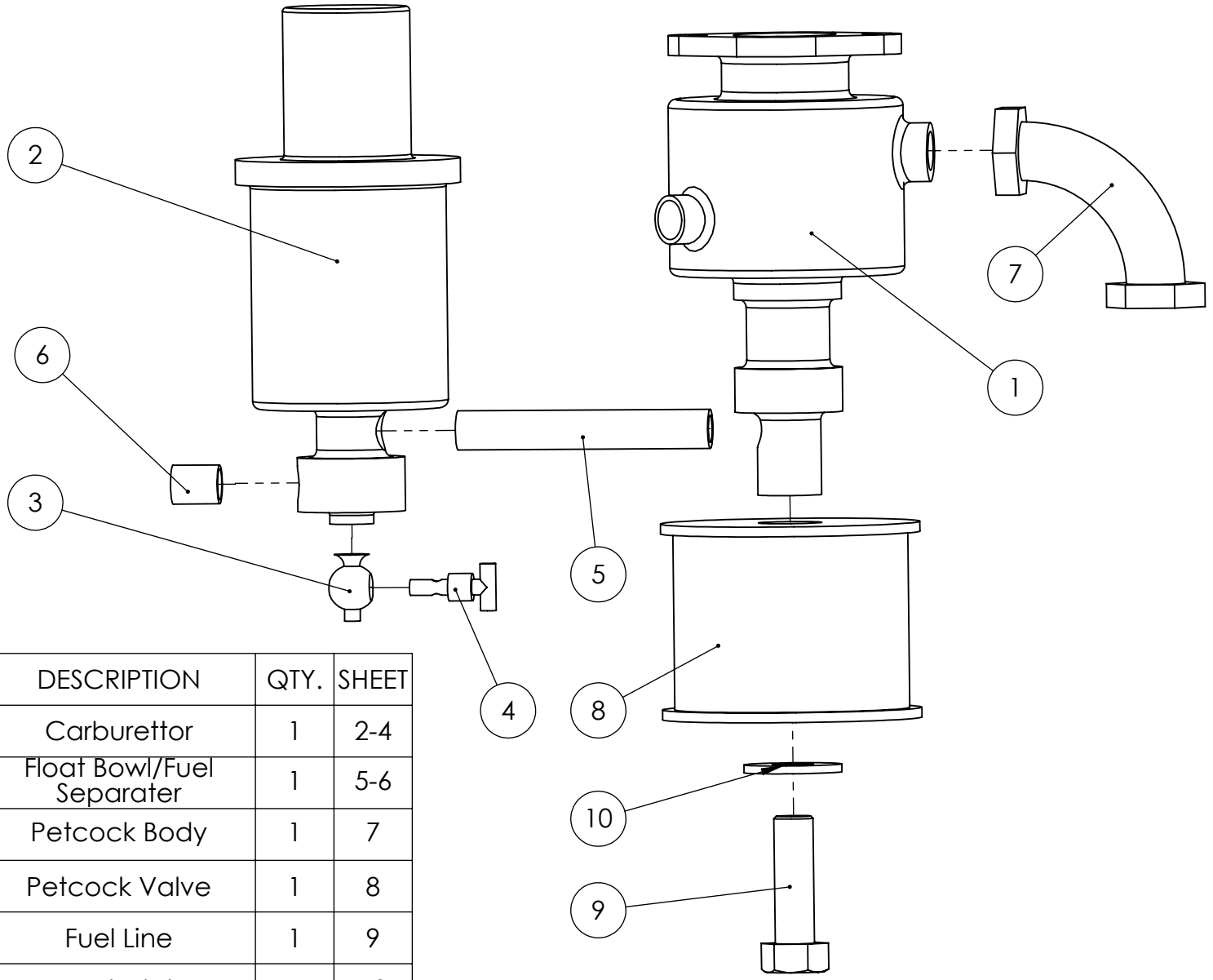
PART #: 10-04 QTY: 01
SCALE: 1:2 SHEET: 5 OF 5



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	SHEET
1	11-01	Carburettor	1	2-4
2	11-02	Float Bowl/Fuel Separater	1	5-6
3	11-03	Petcock Body	1	7
4	11-04	Petcock Valve	1	8
5	11-05	Fuel Line	1	9
6	11-06	Fuel Inlet	1	10
7	11-07	Carb outlet pipe	1	11
8	11-08	Air Cleaner	1	12
9	11-09	HBOLT 0.5000-13x1.625x1.25-N	1	
10	11-10	Regular FW .5"	1	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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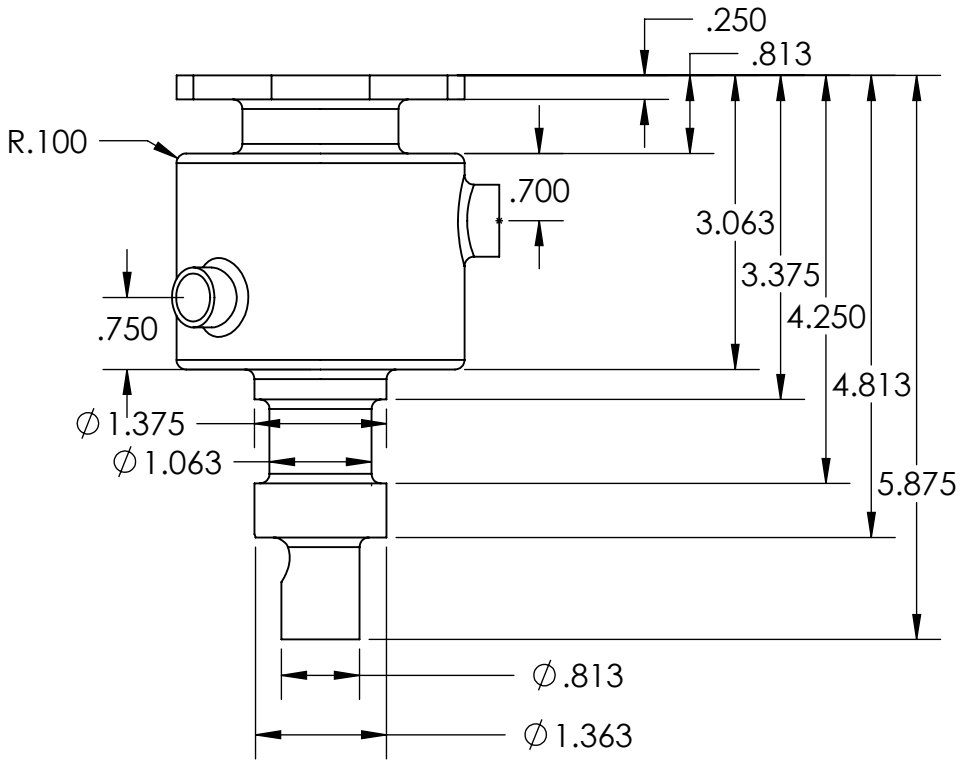
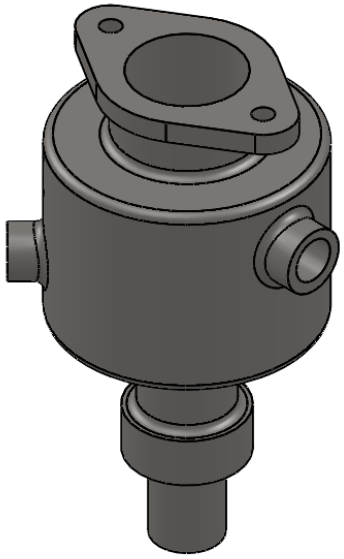
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Carb Assembly
CHECKED BY:
DATE:
DRAWN BY: Brian Bond
DATE: 5/4/2011
FILE NAME: Assembly 11-01.SLDPRT

Odom's Inferno

PART #: 11-00
QTY: 01
SCALE: 1:2
SHEET: 1 OF 12





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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Carburettor
CHECKED BY:
DATE:
DRAWN BY: Brian Bond
DATE: 5/4/2011
FILE NAME: 11-01.SLDPRT

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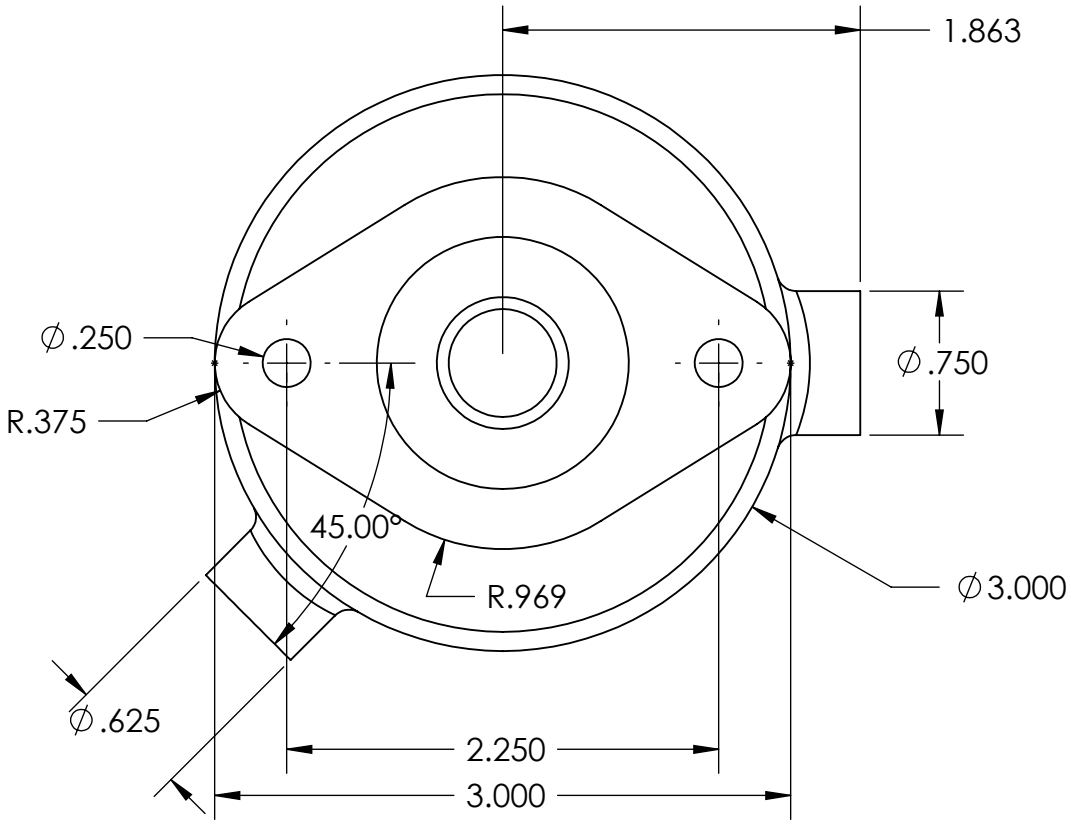
PART #: 11-01
QTY: 1
SCALE: 1:2
SHEET: 2 OF 12



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Carburettor

CHECKED BY: DATE:

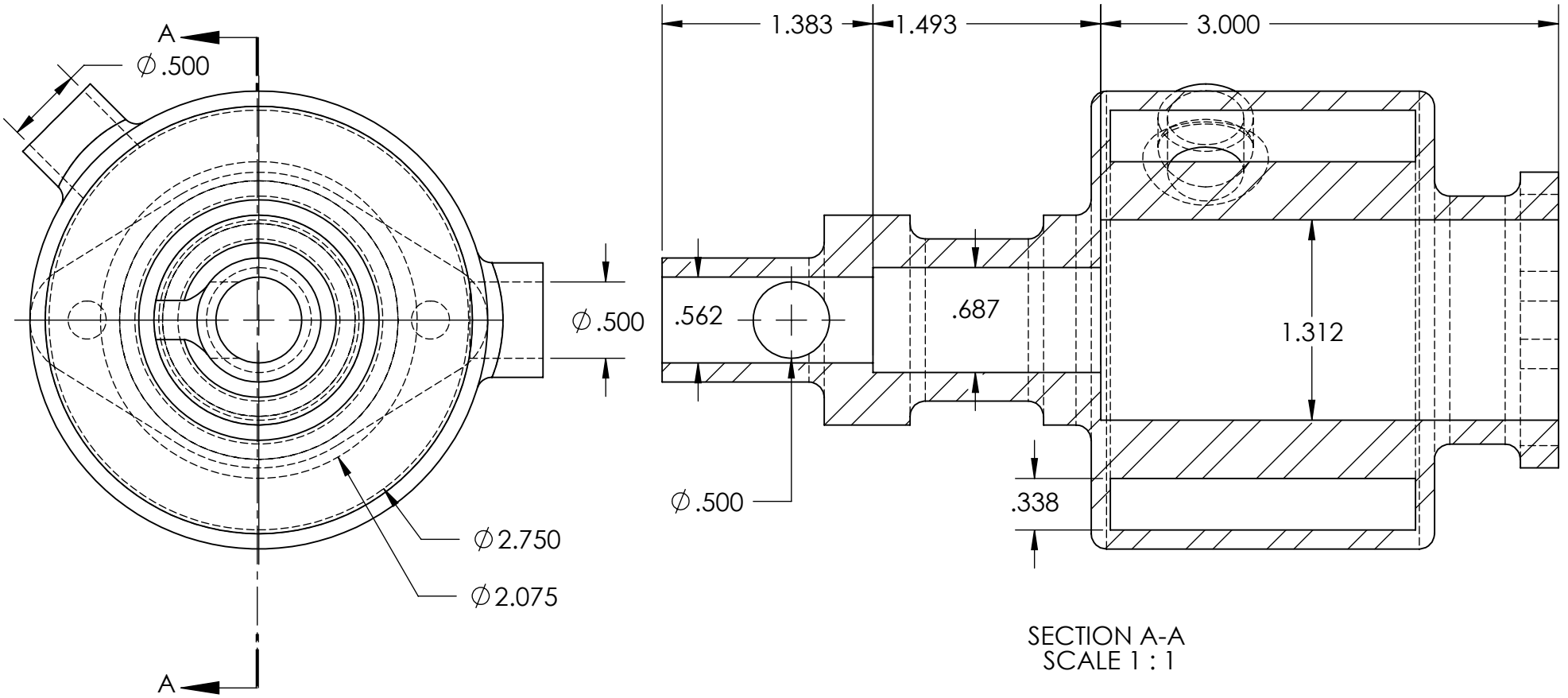
DRAWN BY: Brian Bond DATE: 5/4/2011

FILE NAME: 11-01.SLDPRT

Odom's Inferno

PART #: 11-01 QTY: 1

SCALE: 1:1 SHEET: 3 OF 12



SECTION A-A
SCALE 1 : 1

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

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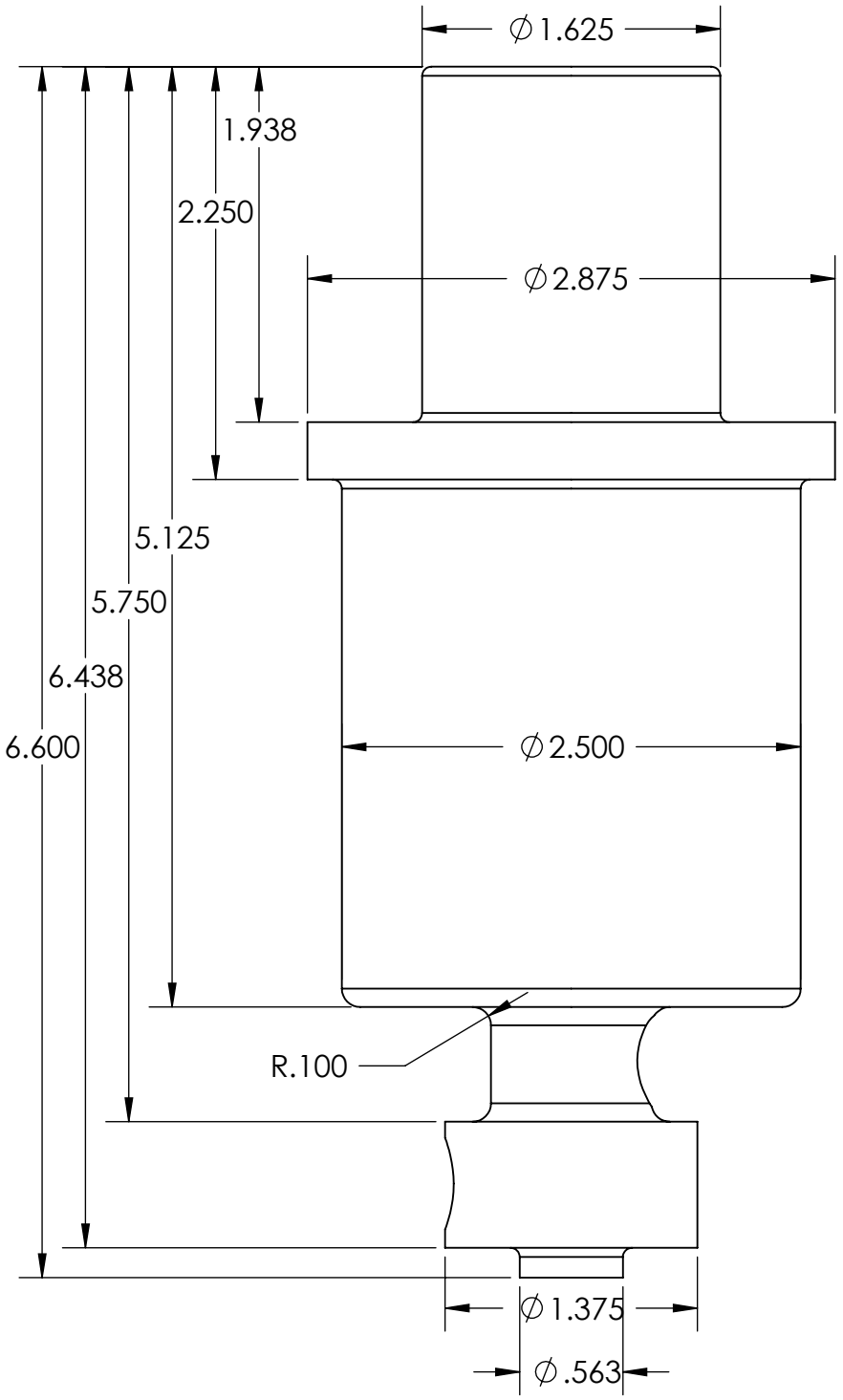
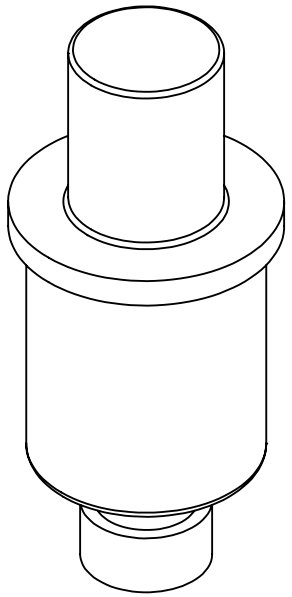
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Carburettor
CHECKED BY:
DATE:
DRAWN BY: Brian Bond
DATE: 5/4/2011
FILE NAME: 11-01.SLDPRT

Odom's Inferno

PART #: 11-01
QTY: 1
SCALE: 1:1
SHEET: 4 OF 12





Scale: 1:2

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Float Bowl/Fuel Separater
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-02.SLDPRT

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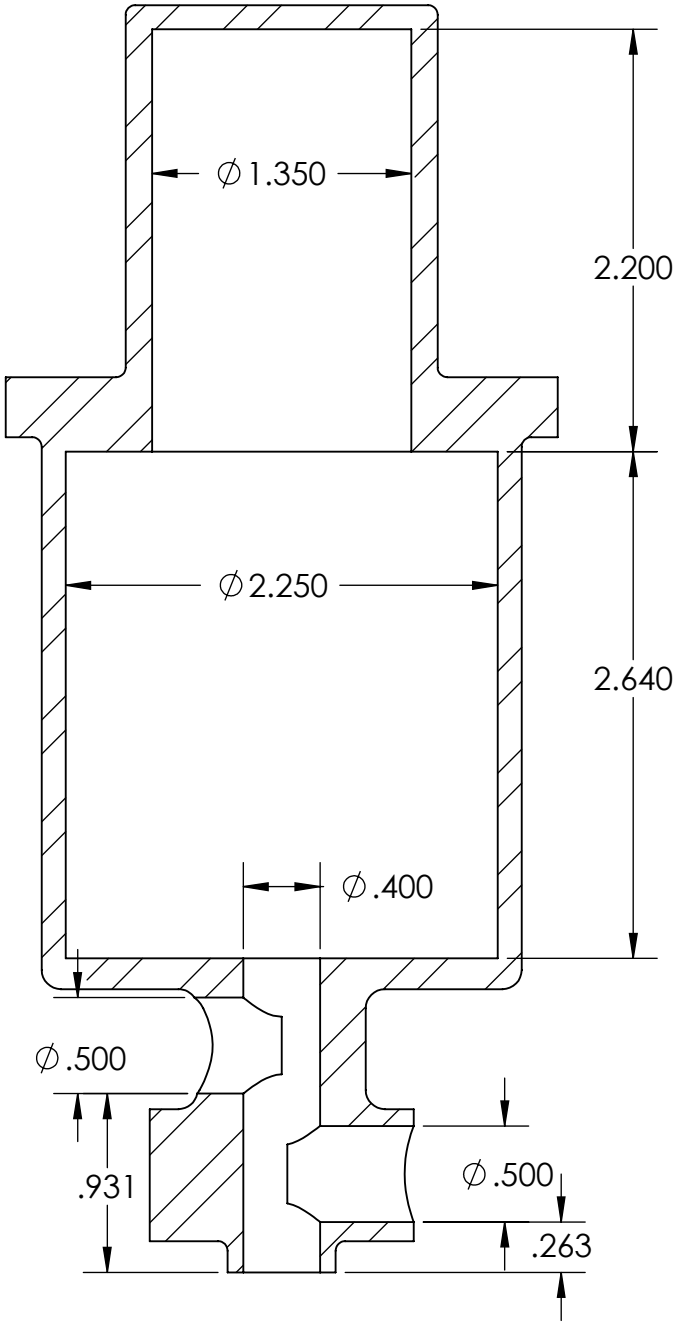
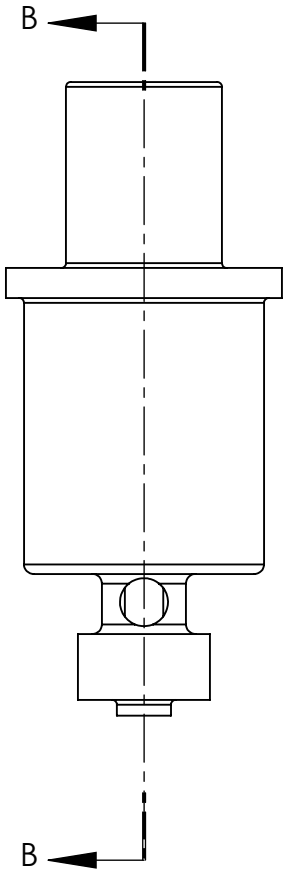
PART #: 11-02 QTY: 1
SCALE: 1:1 SHEET: 5 OF 12



SECTION B-B
SCALE 1 : 1



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Float Bowl/Fuel Separater
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-02.SLDPRT

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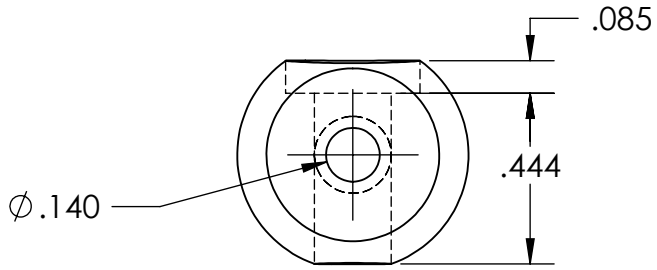
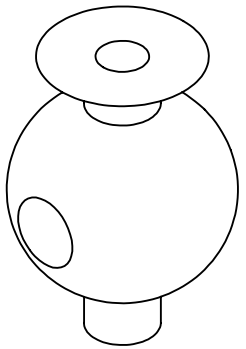
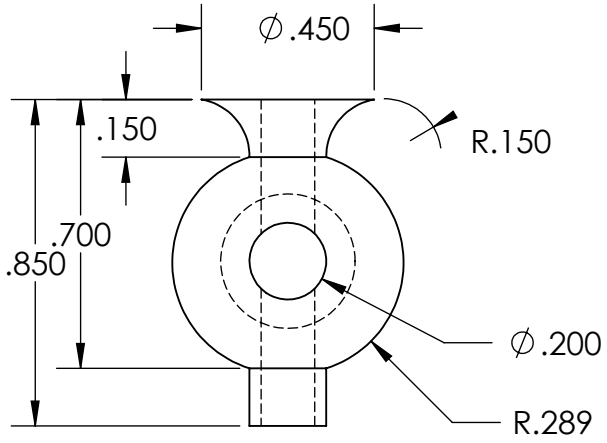
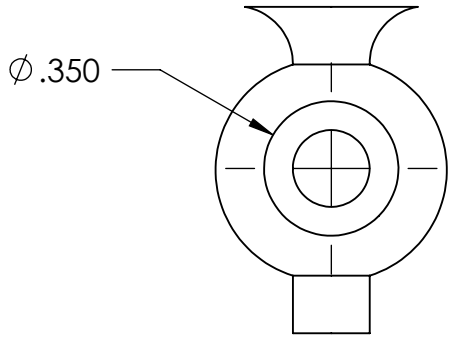
PART #: 11-02 QTY: 1
SCALE: 1:2 SHEET: 6 OF 12









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Petcock Body
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-03.SLDPRT

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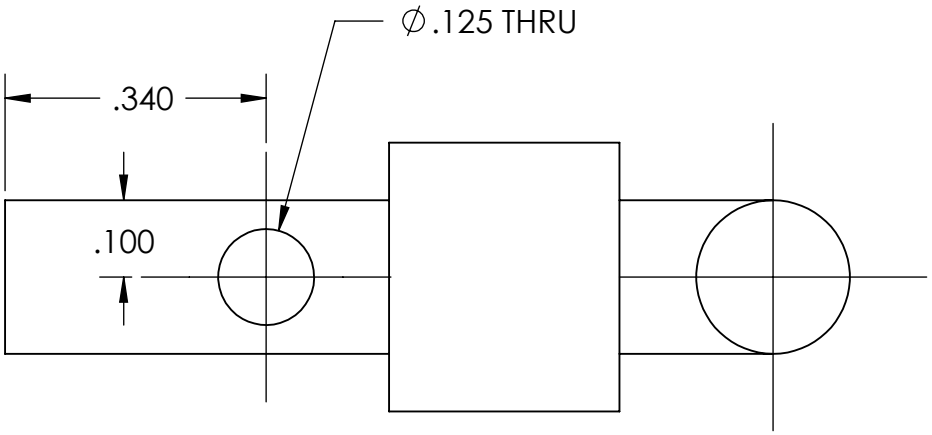
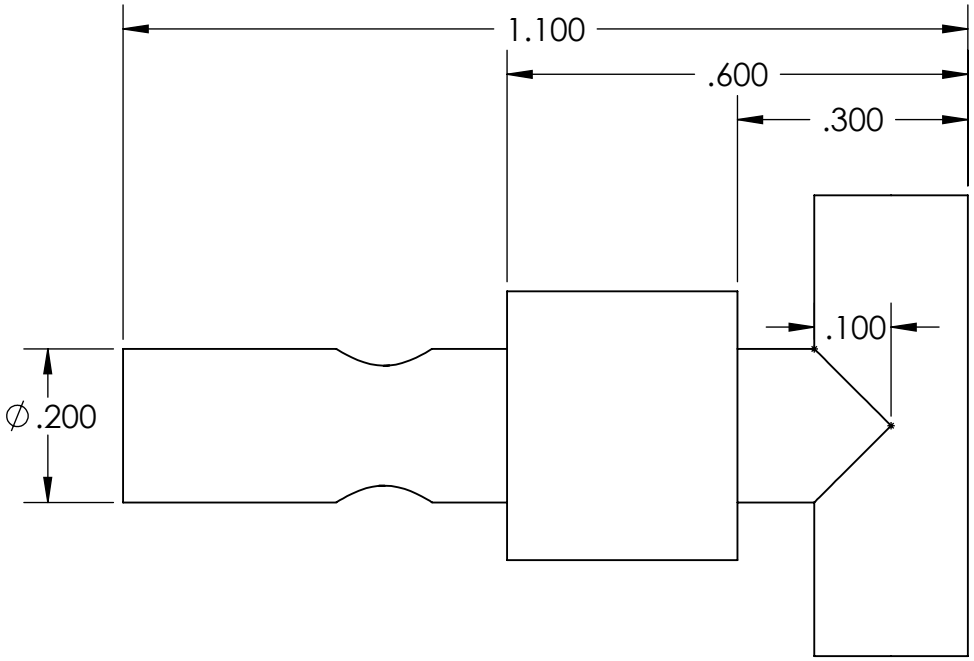
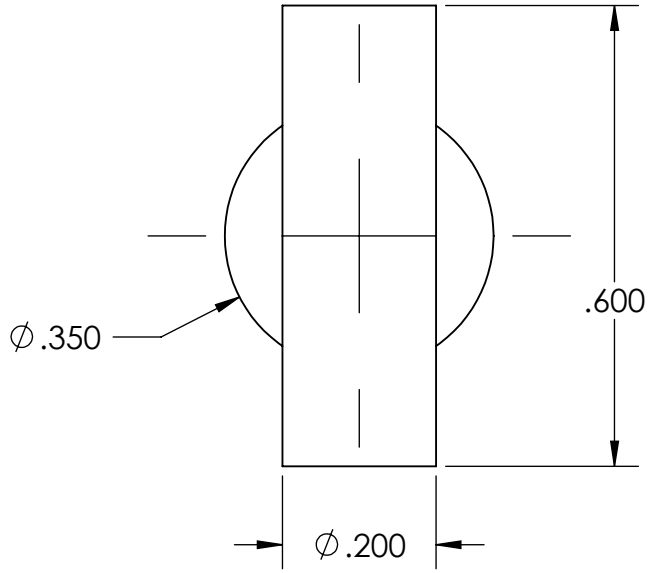
PART #: 11-03 QTY: 1
SCALE: 2:1 SHEET: 7 OF 12







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Petcock Valve
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-04.SLDPRT

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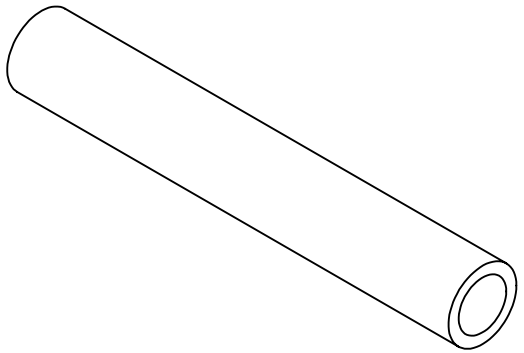
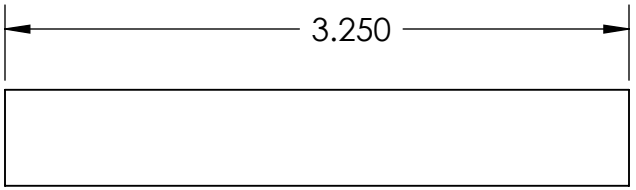
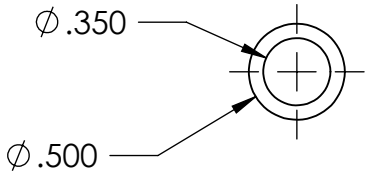
PART #: 11-04 QTY: 1
SCALE: 4:1 SHEET: 8 OF 12







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Fuel Line

CHECKED BY: DATE:

DRAWN BY: Brian Bond DATE: 5/4/2011

FILE NAME: 11-05.SLDPRT

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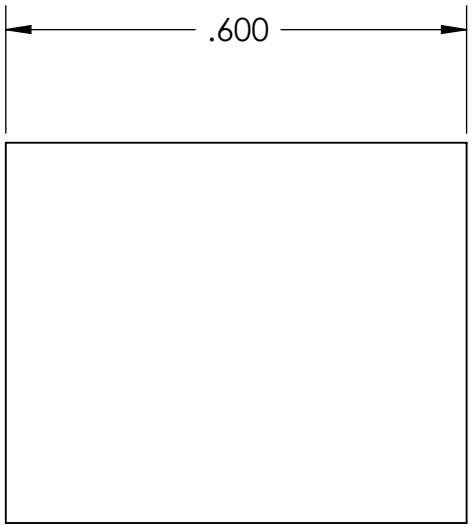
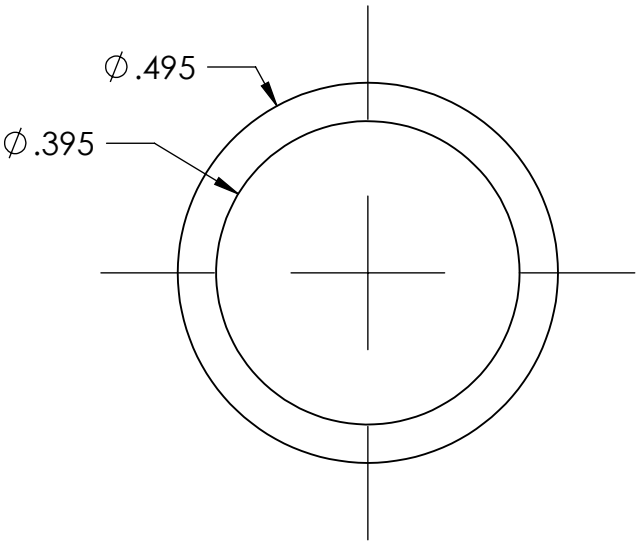
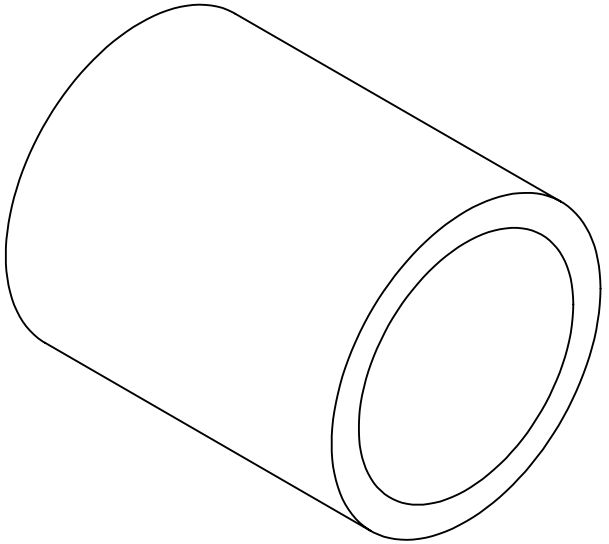
PART #: 11-05 QTY: 1

SCALE: 1:1 SHEET: 9 OF 12







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Fuel Inlet
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-06.SLDPRT

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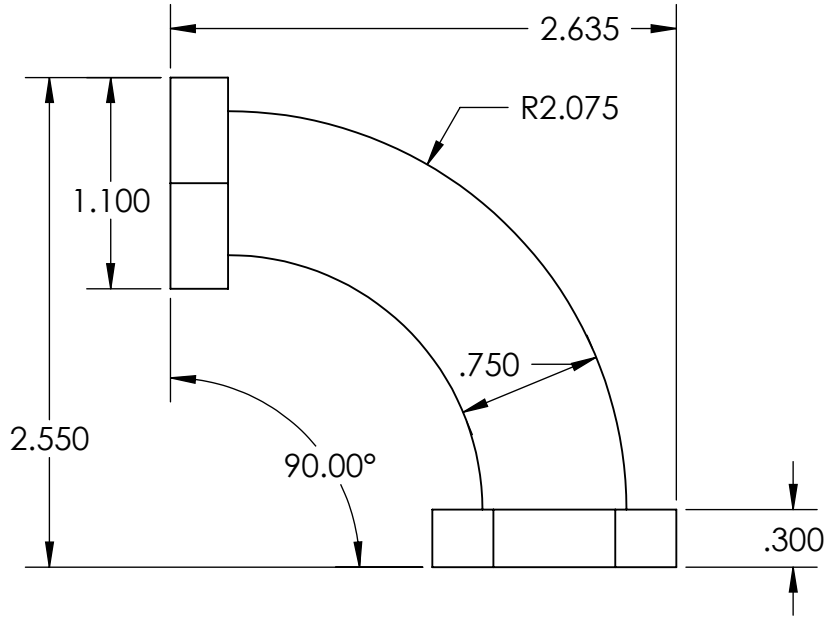
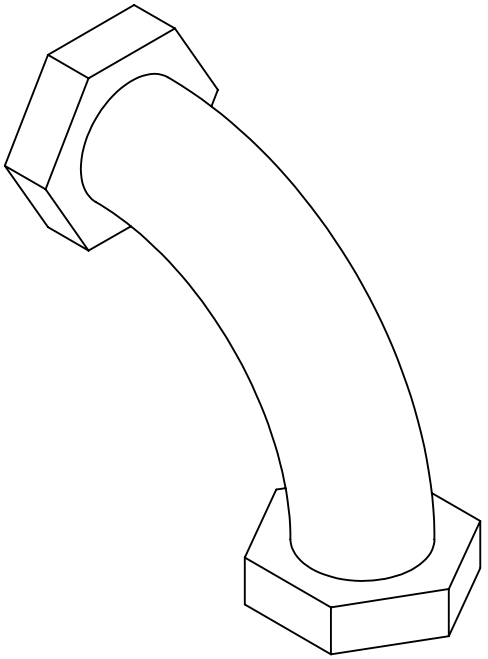
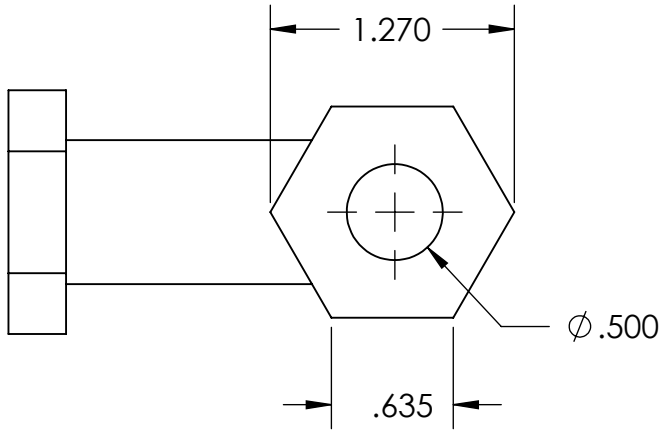
PART #: 11-06 QTY: 1
SCALE: 4:1 SHEET: 10 OF 12







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Carb outlet pipe
CHECKED BY:
DATE:
DRAWN BY: Chad Nuxoll
DATE: 5/4/2011
FILE NAME: 11-07.SLDPRT

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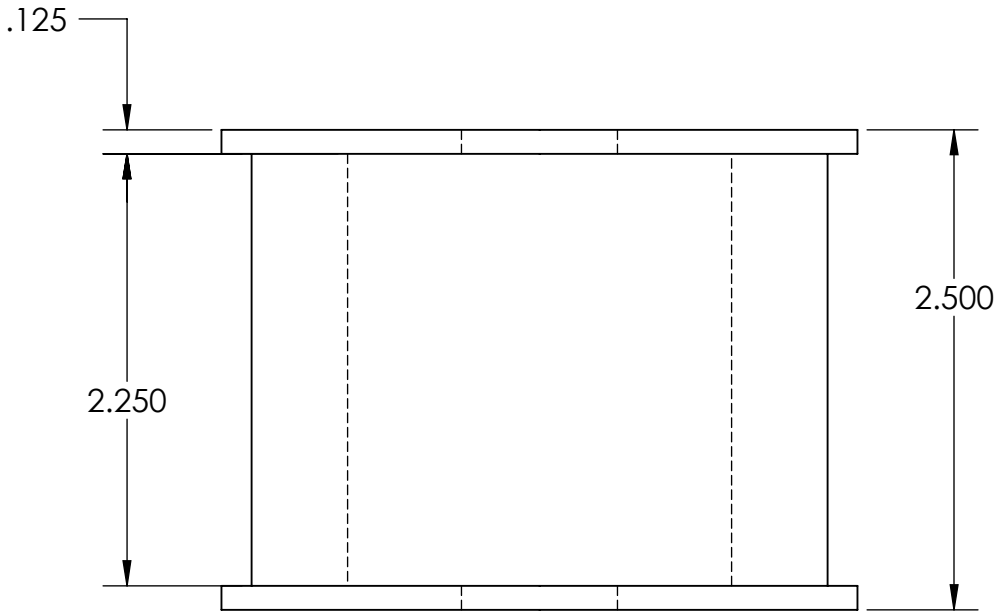
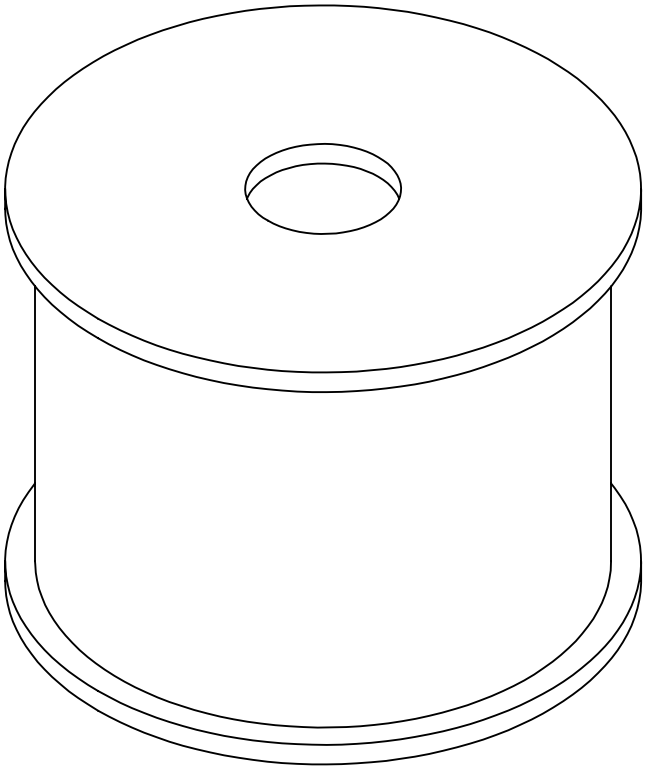
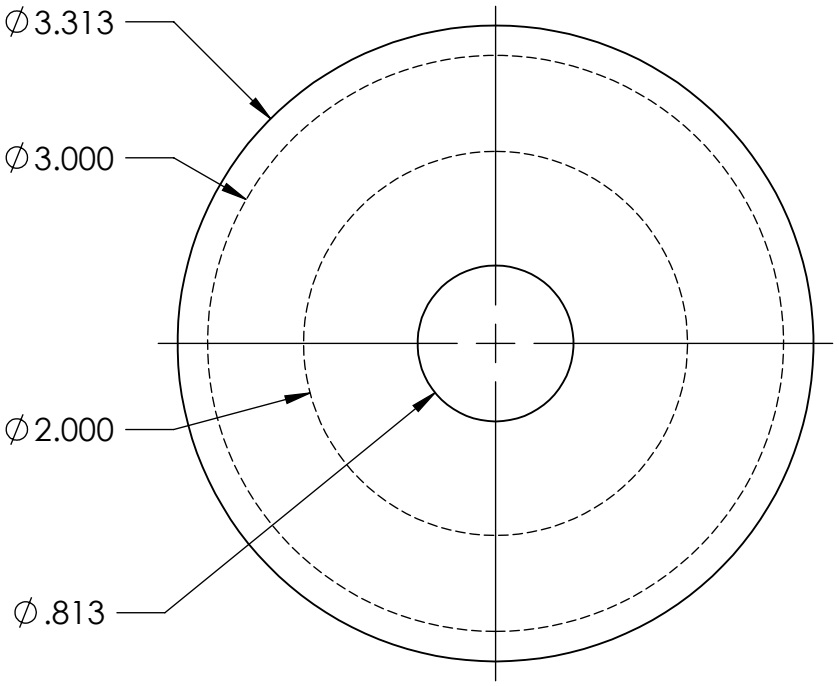
PART #: 11-07
QTY: 1
SCALE: 1:1
SHEET: 11 OF 12







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Carbon Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Air Cleaner
CHECKED BY: DATE:
DRAWN BY: Brian Bond DATE: 5/4/2011
FILE NAME: 11-08.SLDPRT

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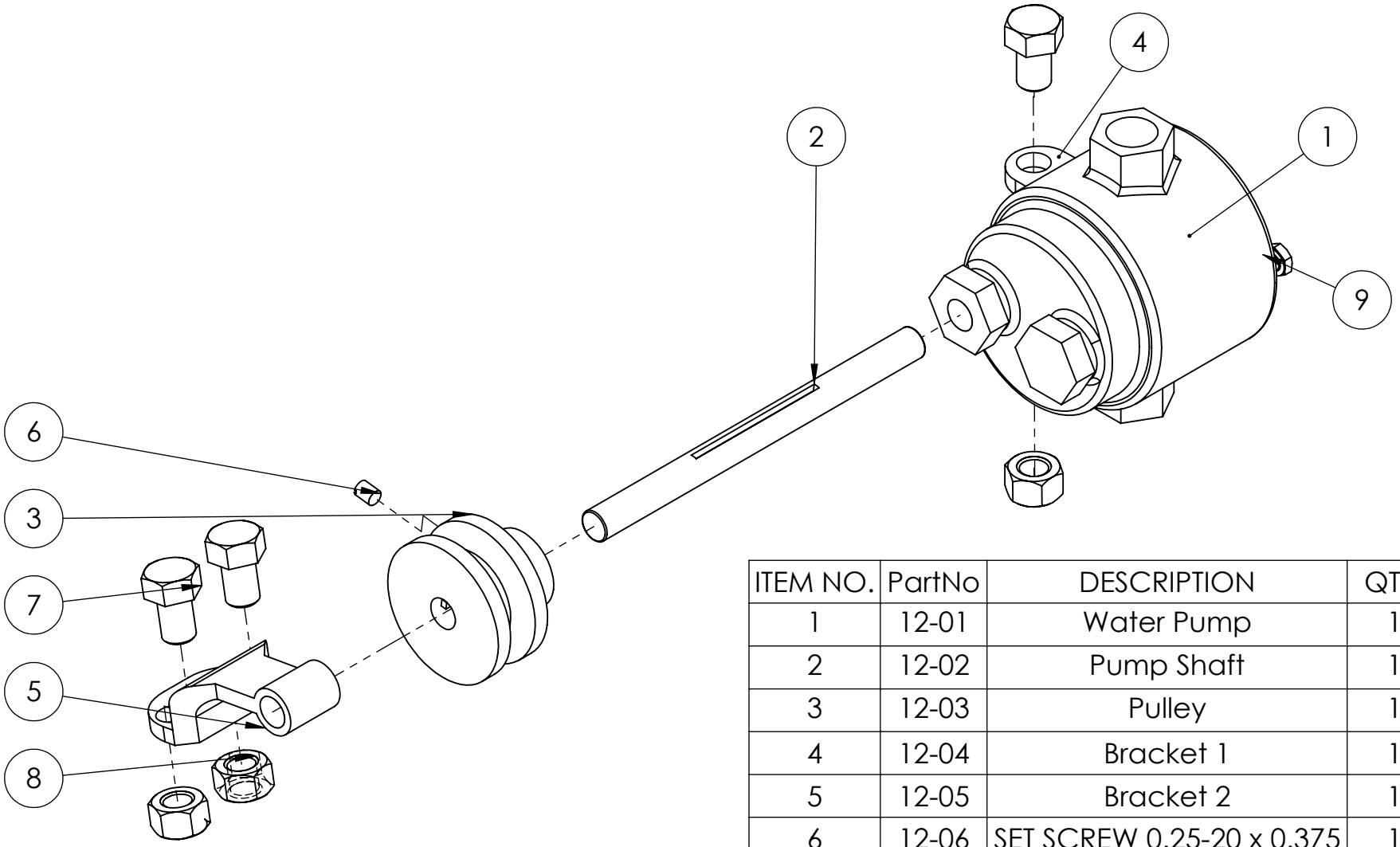
PART #: 11-08 QTY: 1
SCALE: 1:1 SHEET: 12 OF 12



ITEM NO.	PartNo	DESCRIPTION	QTY.	Sheet
1	12-01	Water Pump	1	2
2	12-02	Pump Shaft	1	3
3	12-03	Pulley	1	4
4	12-04	Bracket 1	1	5
5	12-05	Bracket 2	1	6-7
6	12-06	SET SCREW 0.25-20 x 0.375	1	
7	12-07	HEX BOLT 0.5-13tpi x 0.75	3	
8	12-08	Hex Nut 0.5-13tpi	3	
9	12-09	HEX BOLT 0.25-20 x 0.625	2	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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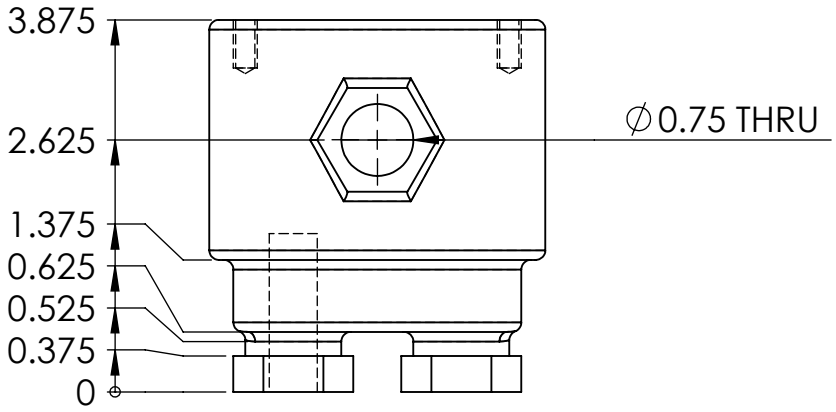
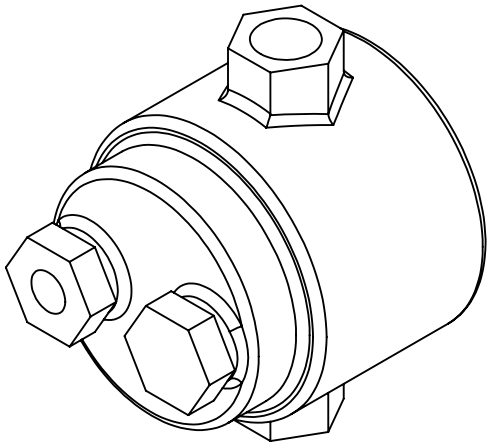
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

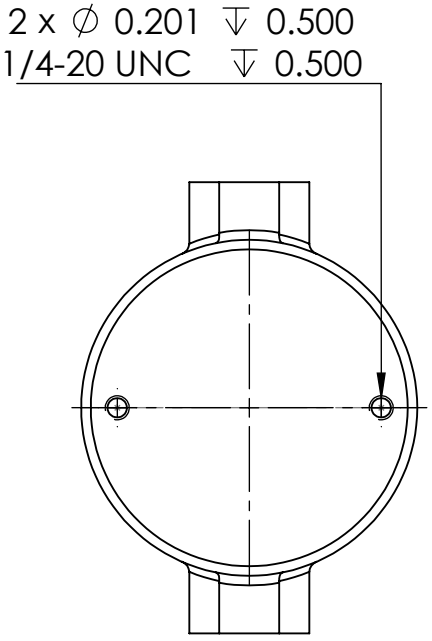
DESCRIPTION: Water Pump Assembly
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/28/2011
FILE NAME: Water Pump Exploded View.SLDPRT

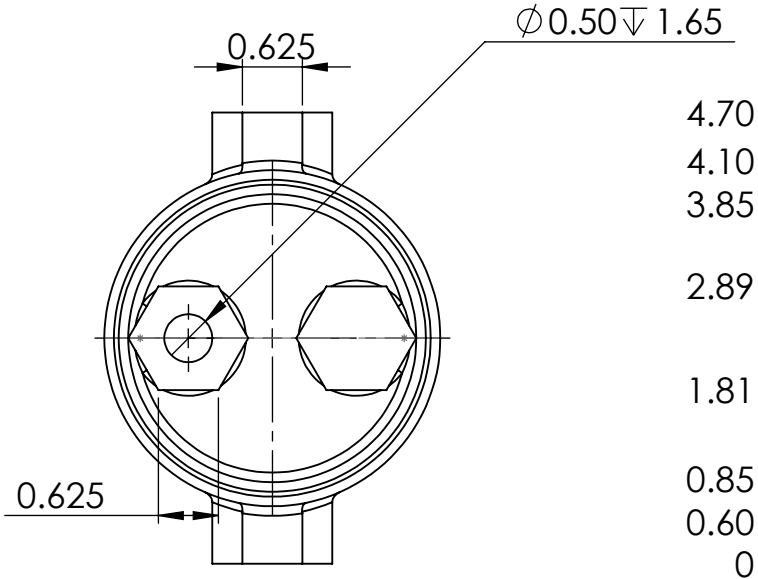
Odom's Inferno

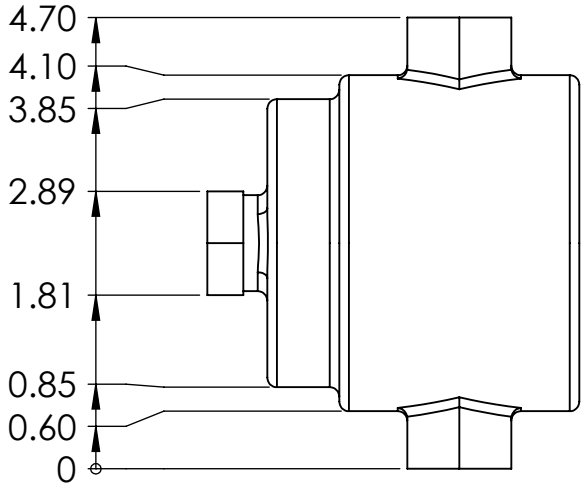
PART #: 12-00 QTY: 01
SCALE: 1:10 SHEET: 1 OF 7











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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Water Pump
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-01 Water Pump.SLDPRT

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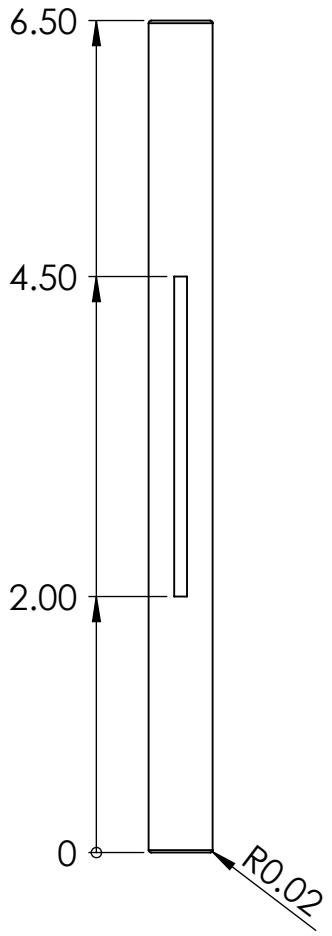
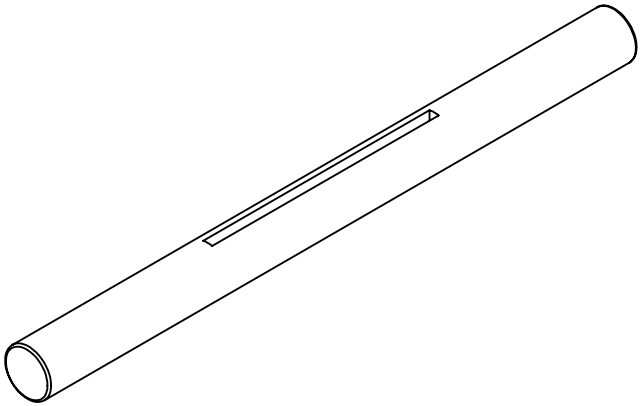
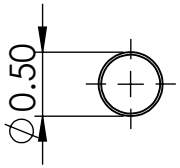
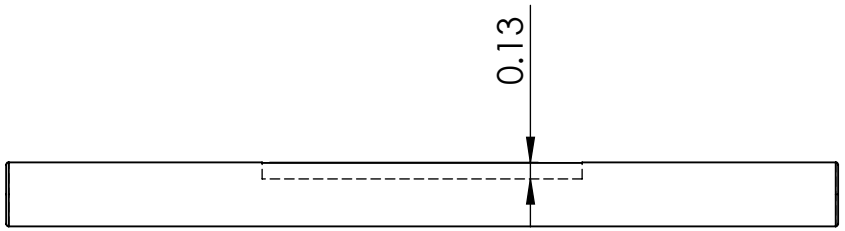
PART #: 12-01 QTY: 1
SCALE: 1:2 SHEET: 2 OF 7









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Pump Shaft
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-02 Pump Shaft.SLDPRT

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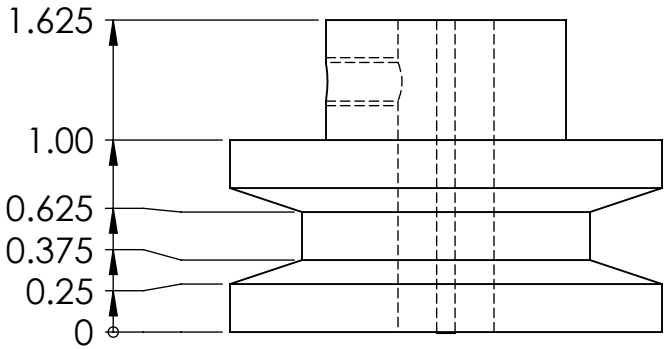
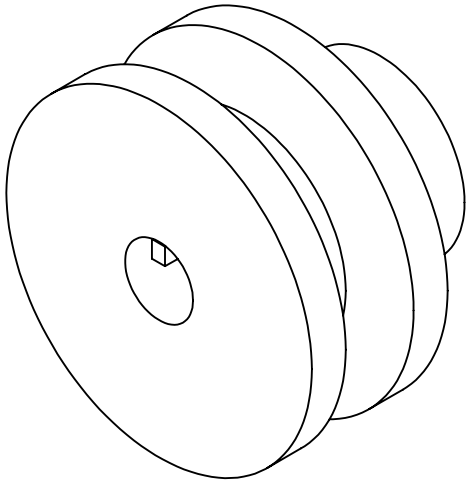
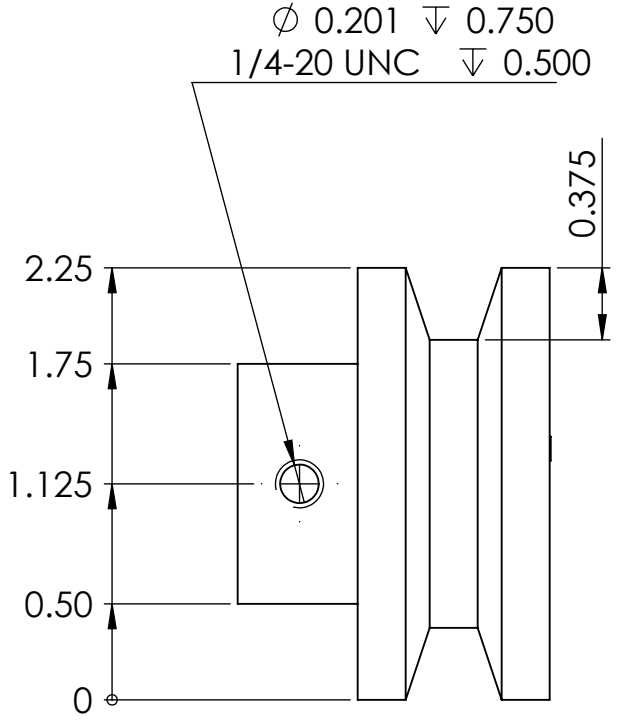
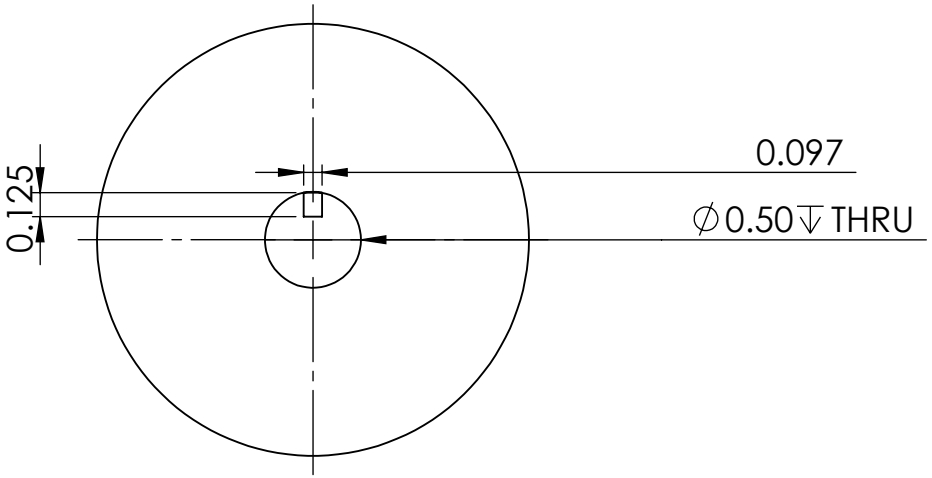
PART #: 12-02 QTY: 1
SCALE: 1:1.5 SHEET: 3 OF 7









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Pulley
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-03 Water Pump Pulley.SLDPRT

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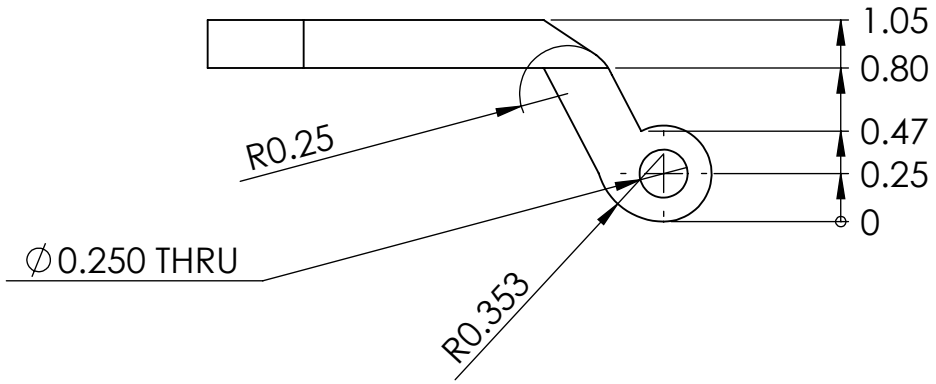
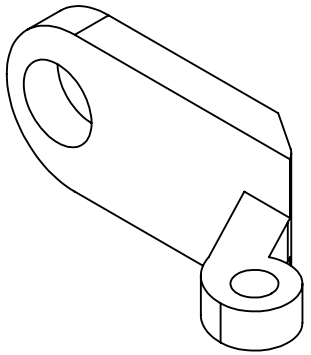
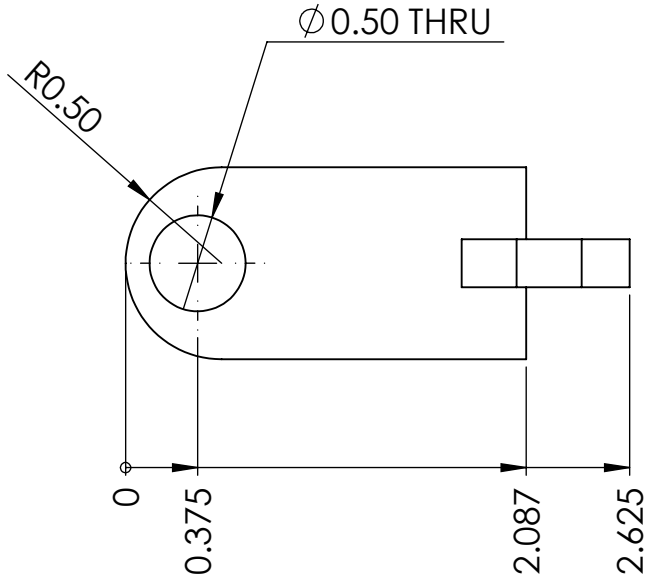
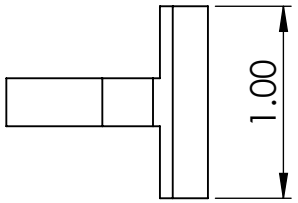
Odom's Inferno

PART #: 12-03 QTY: 1
SCALE: 1:1 SHEET: 4 OF 7









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Bracket 1
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-04 Pump Bracket1.SLDPRT

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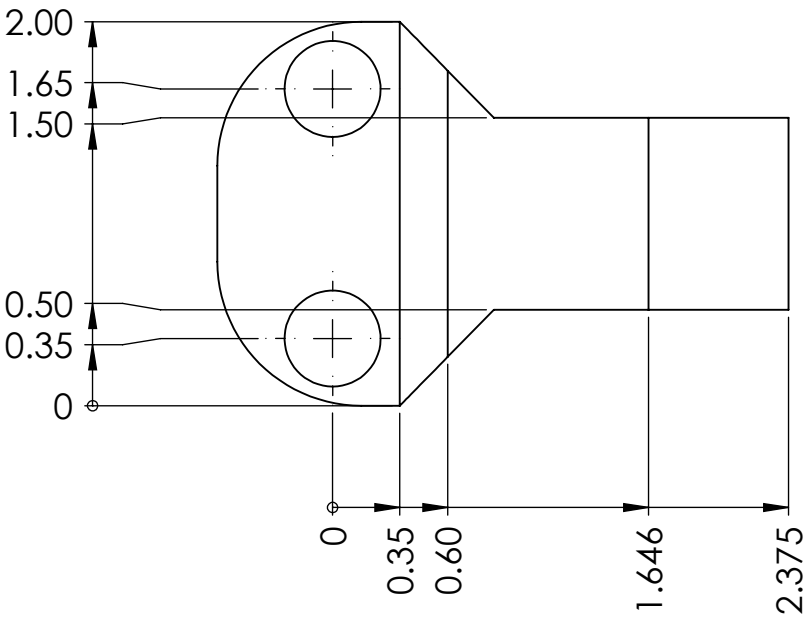
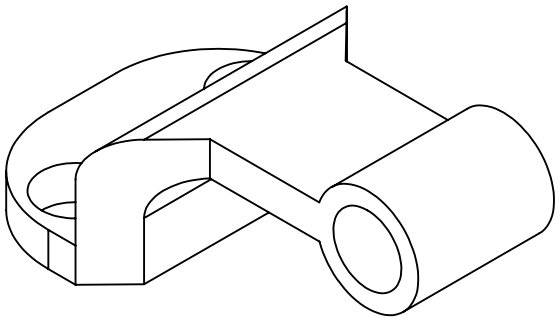
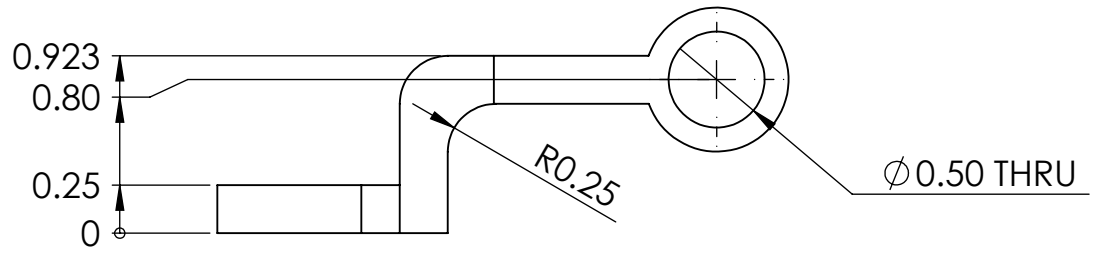
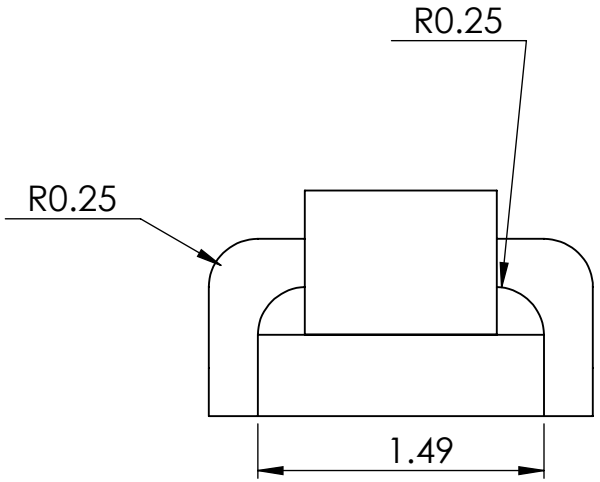
PART #: 12-04 QTY: 1
SCALE: 1:1 SHEET: 5 OF 7









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Bracket 2
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-05 Pump Bracket 2.SLDPRT

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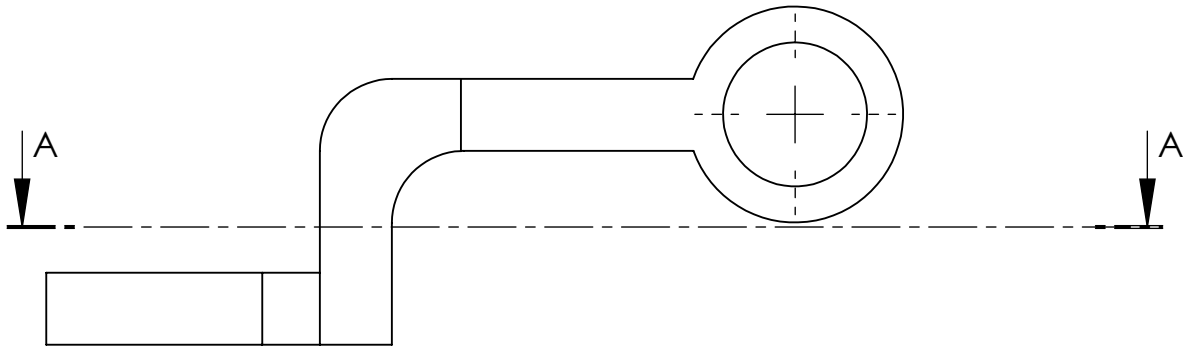
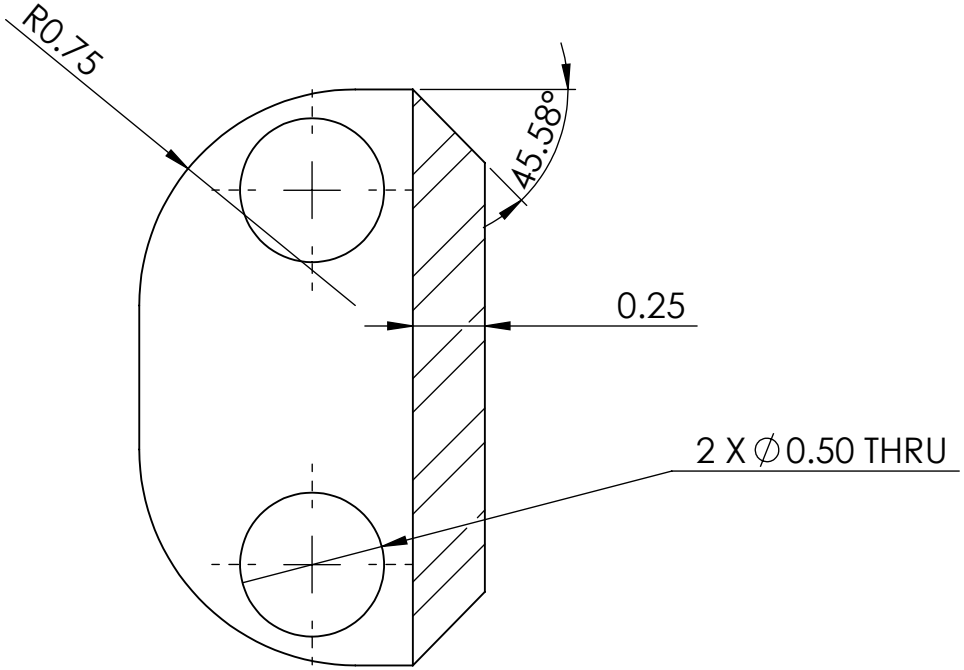
PART #: 12-05 QTY: 1
SCALE: 1:1 SHEET: 6 OF 7





SECTION A-A
SCALE 3 : 2

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Bracket 2
CHECKED BY: DATE:
DRAWN BY: Jeremy Cuddihy DATE: 4/27/2011
FILE NAME: 12-05 Pump Bracket 2.SLDPRT

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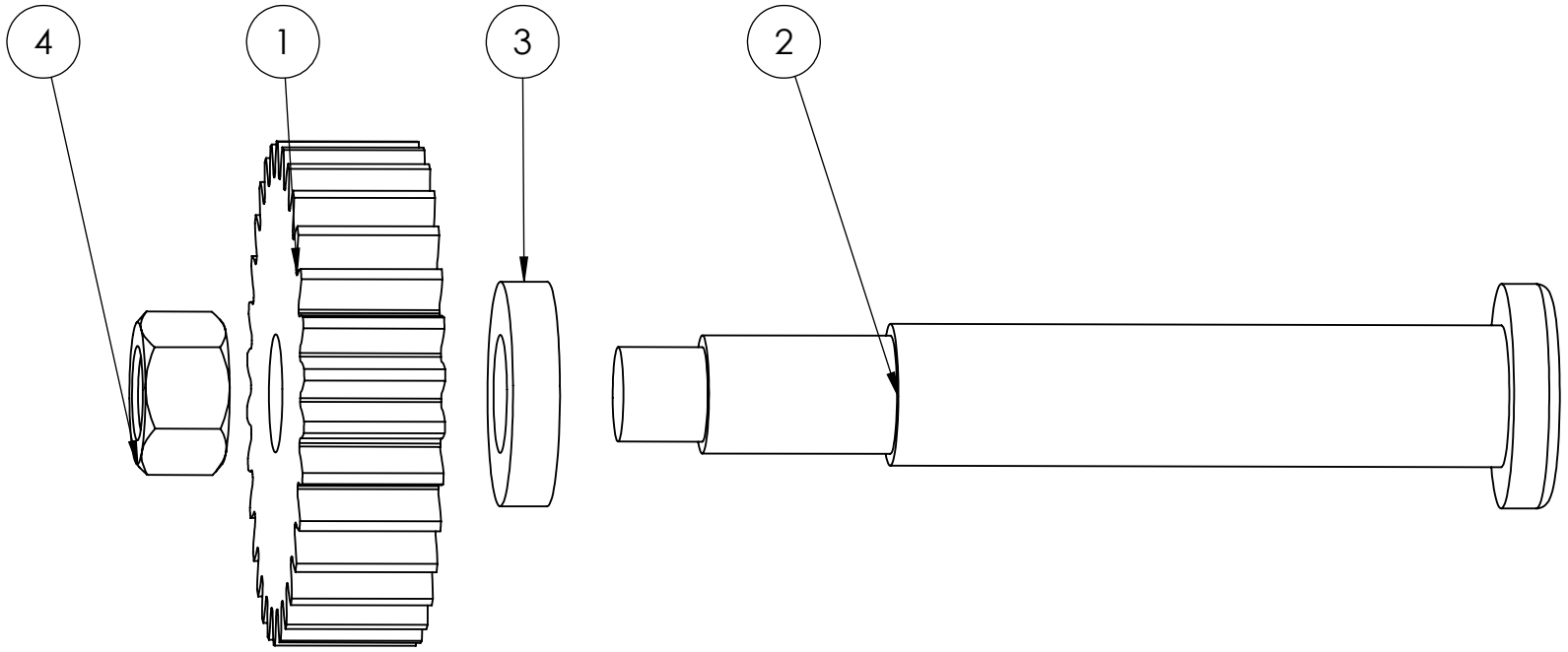
PART #: 12-05 QTY: 1
SCALE: 3:2 SHEET: 7 OF 7



ITEM NO.	PartNo	DESCRIPTION	QUANTITY	SHEET
1	13-01	Idle Gear	1	2
2	13-02	Idle Spindle	1	3
3	13-03	Idle Washer	1	
4	13-04	Hex Nut 1/2in x 13tpi	1	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Idler Gear Assembly

CHECKED BY: DATE:

DRAWN BY: Ian Clarke DATE: 4/27/2011

FILE NAME: 13-00 Idler Assembly.SLDPRT

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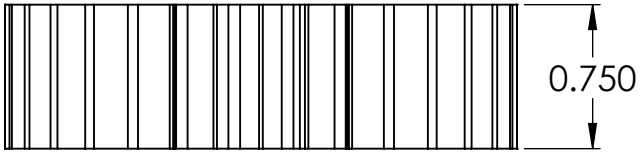
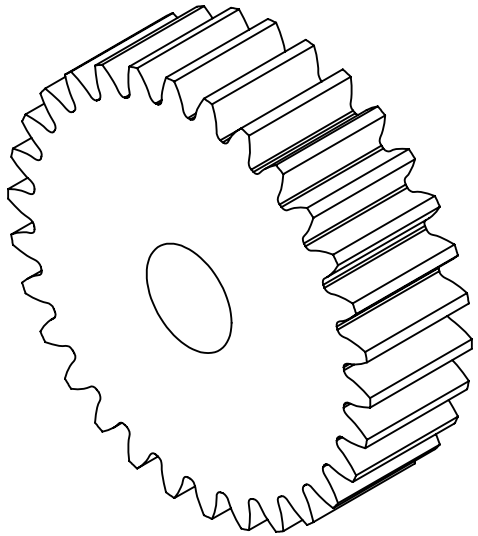
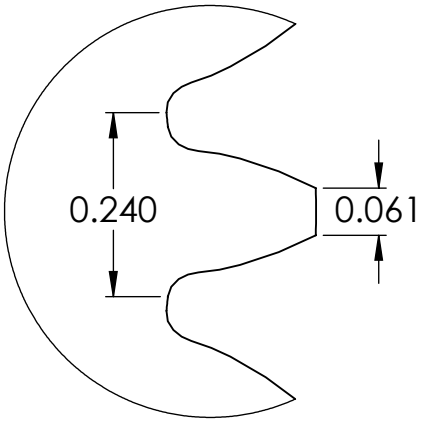
PART #: 13-00 QTY: 01

SCALE: 1:1 SHEET: 1 OF 3

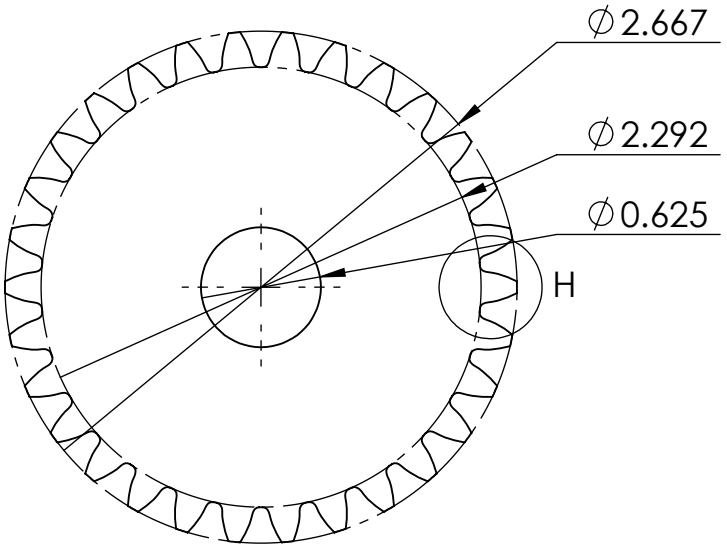




30x TOOTH



DETAIL H
SCALE 4 : 1



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Idle Gear
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/26/2011
FILE NAME: 13-01 Idle Gear.SLDPRT

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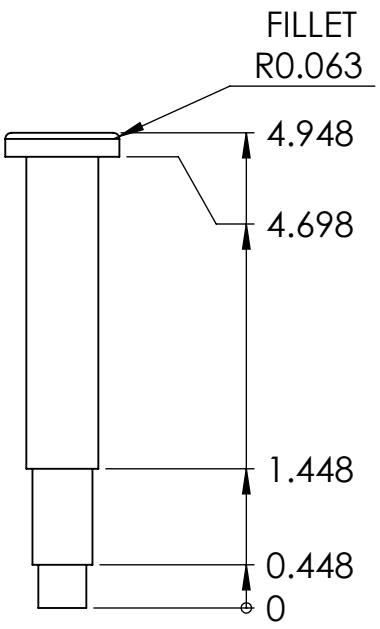
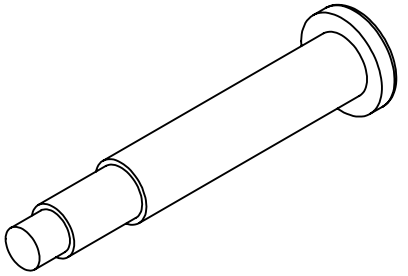
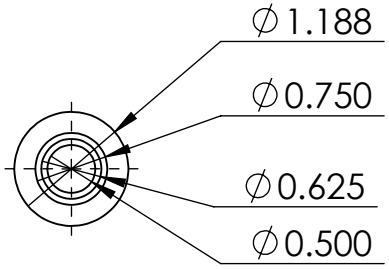
PART #: 13-01 QTY: 01
SCALE: 1:1 SHEET: 2 OF 3







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Idle Spindle
CHECKED BY: DATE:
DRAWN BY: Ian Clarke DATE: 4/26/2011
FILE NAME: 13-02 Idle Spindle.SLDPRT

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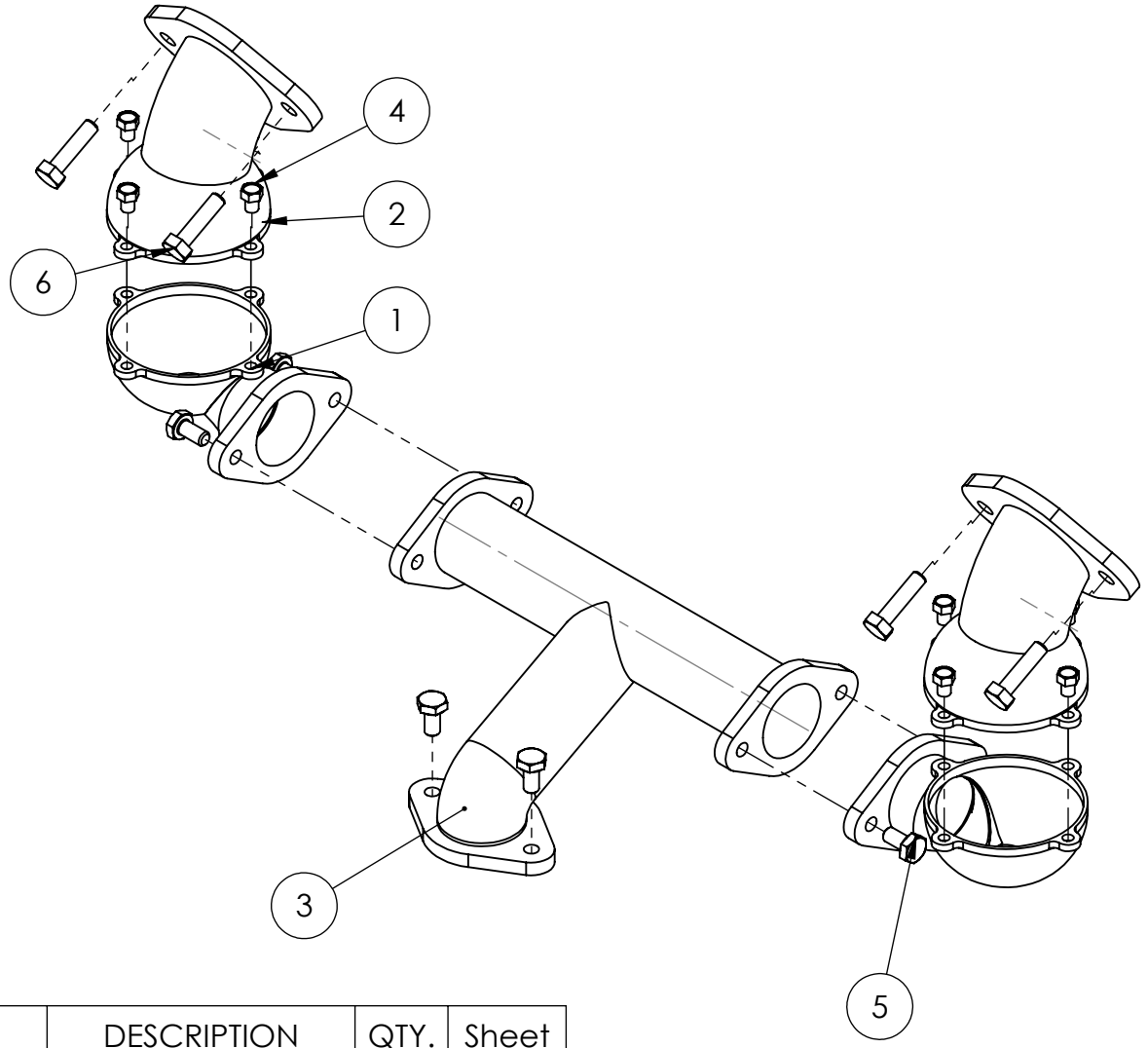
PART #: 13-02 QTY: 01
SCALE: 1:2 SHEET: 3 OF 3



ITEM #	PartNo	DESCRIPTION	QTY.	Sheet
1	14-01	bottom Intake Bowl	2	2
2	14-02	top Intake Bowl	2	3
3	14-03	Intake to Carb Pipe	1	4
4		1/2 hex screw	8	
5		1/4 hex finished bolt	6	
6		3/4 hex bolt	4	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Intake
CHECKED BY:
DATE:
DRAWN BY: Chad Nuxoll
DATE: 5/2/2011
FILE NAME: Intake assembly.SLDPRT

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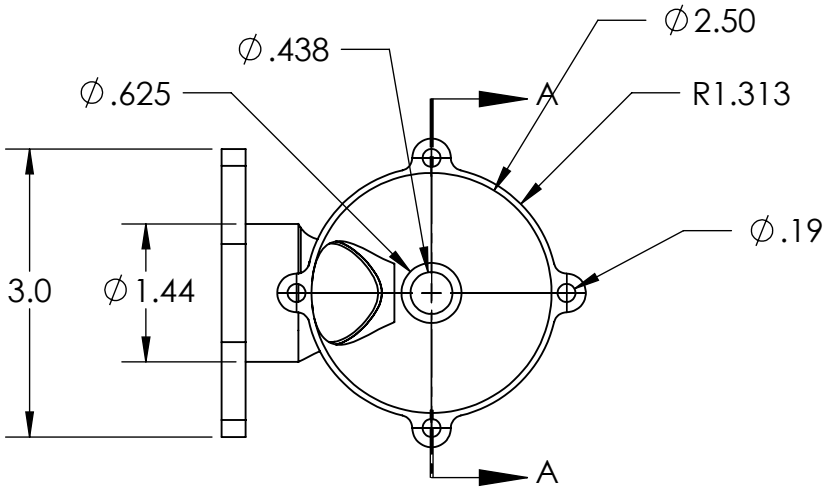
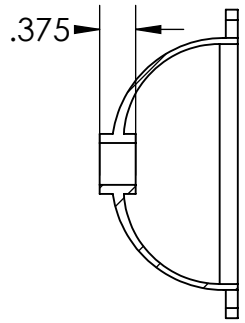
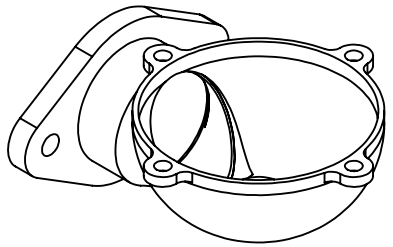
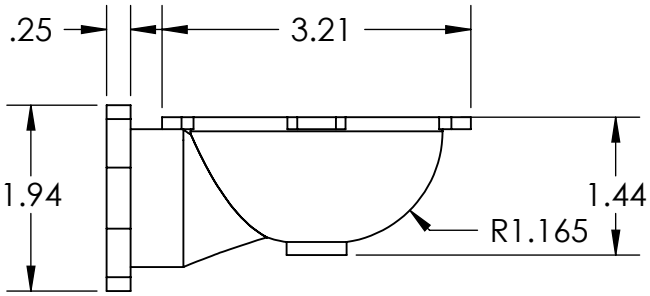
PART #: 14-00
QTY: 1
SCALE: 1:3
SHEET: 1 OF 4

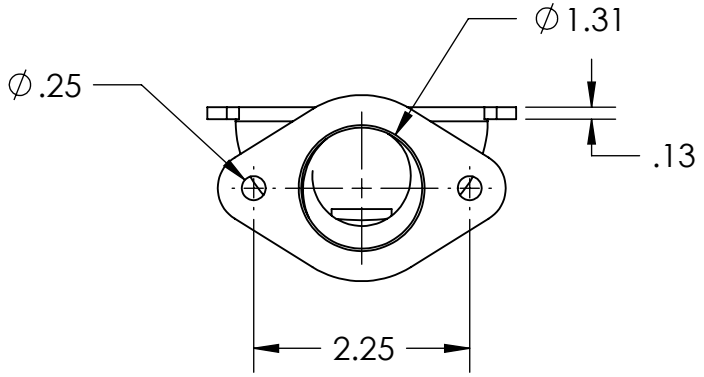




SECTION A-A







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: bottom Intake Bowl
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/26/2011
FILE NAME: 14-01 intake.SLDPRT

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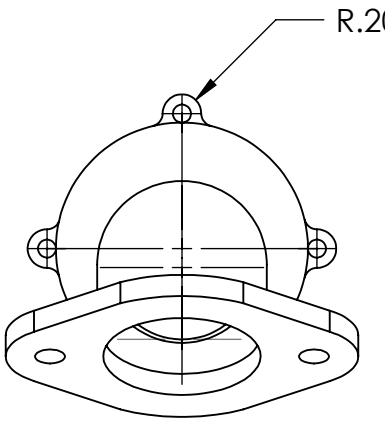
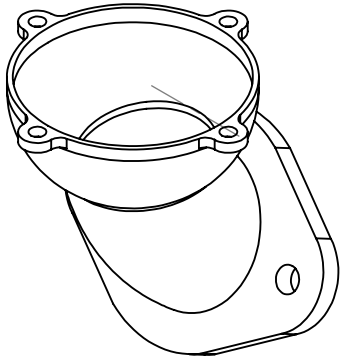
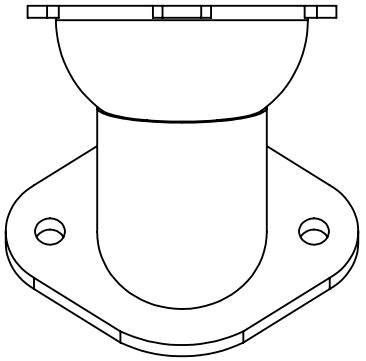
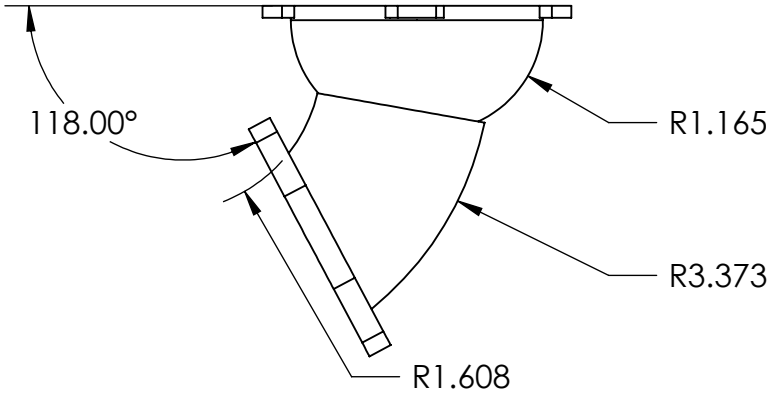
PART #: 14-01 QTY: 2
SCALE: 1:2 SHEET: 2 OF 4









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

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DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: top Intake Bowl

CHECKED BY: DATE:

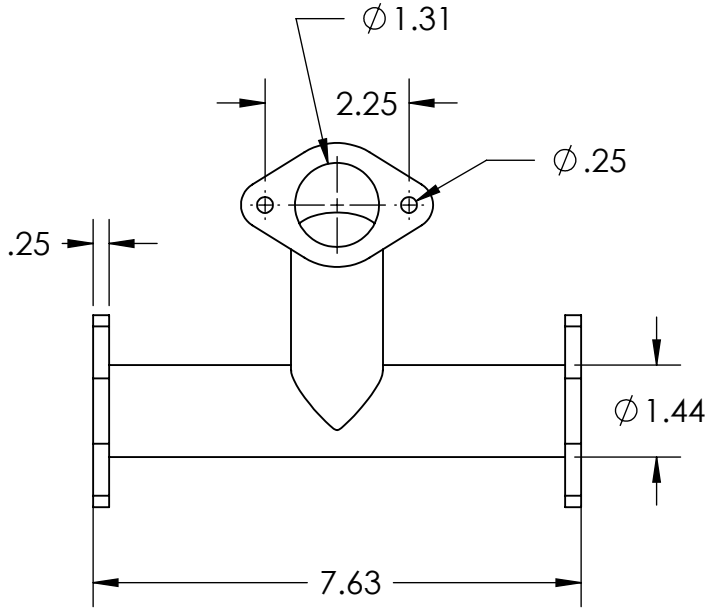
DRAWN BY: Chad Nuxoll DATE: 4/26/2011

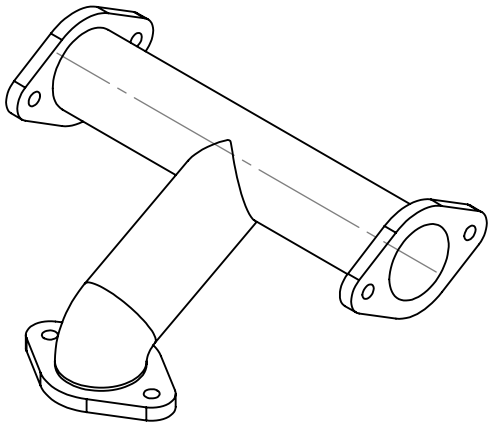
FILE NAME: 14-02 intake top.SLDPRT

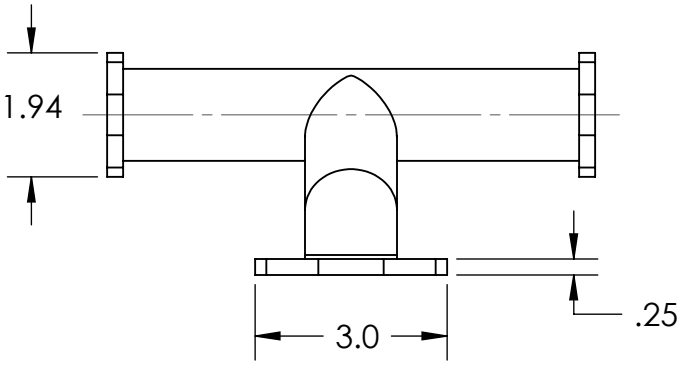
Odom's Inferno

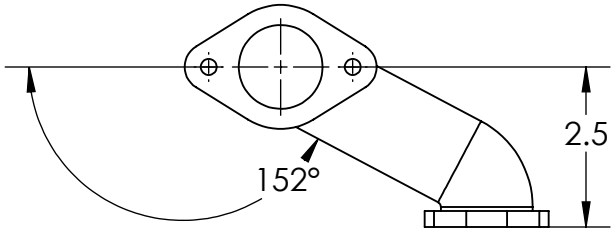
PART #: 14-02 QTY: 2

SCALE: 1:2 SHEET: 3 OF 4









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Cast Alloy Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Intake to Carb Pipe
CHECKED BY: DATE:
DRAWN BY: Chad Nuxoll DATE: 4/21/2011
FILE NAME: 14-03 Intake to Carburettor.SLDPRT

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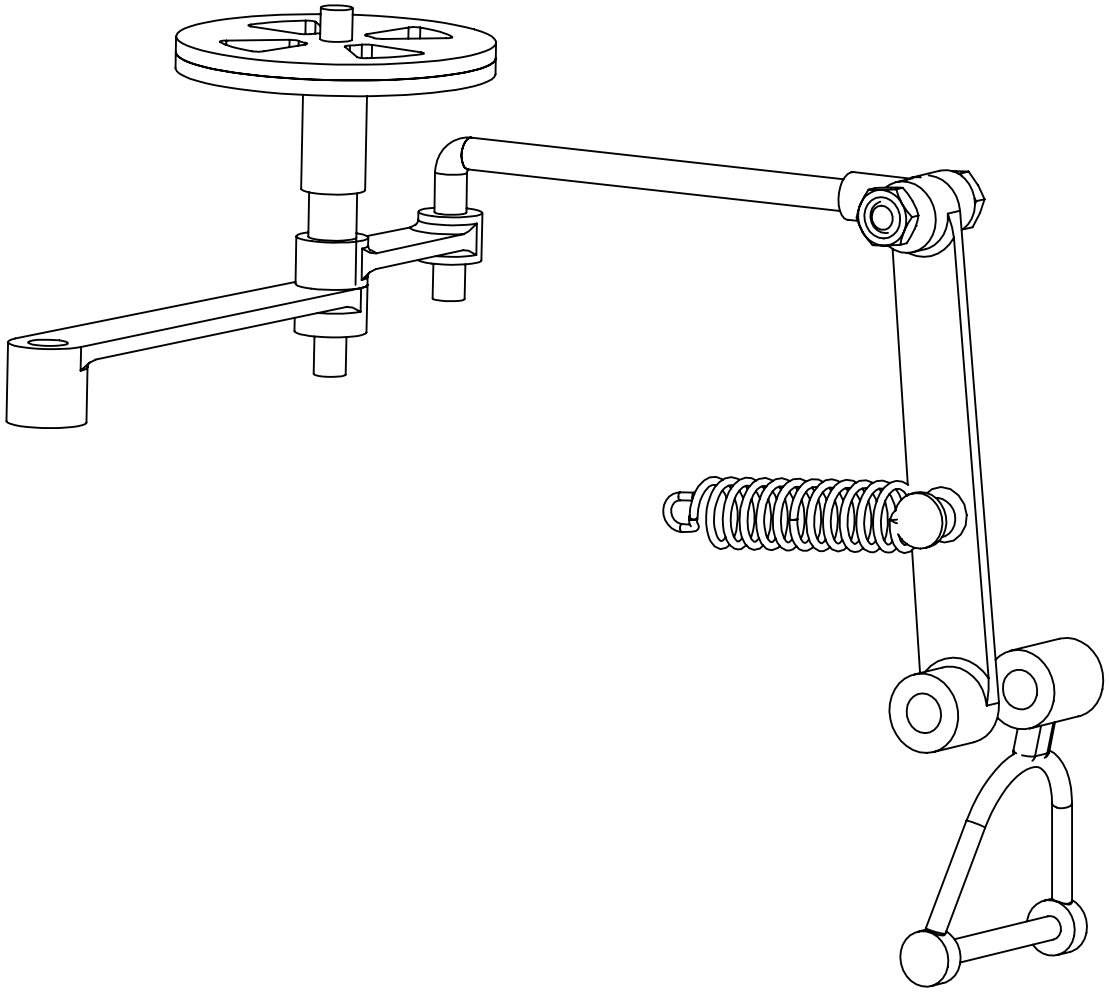
Odom's Inferno

PART #: 14-03 QTY: 1
SCALE: 1:3 SHEET: 4 OF 4



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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Left Side Governor Linkage

CHECKED BY: DATE:

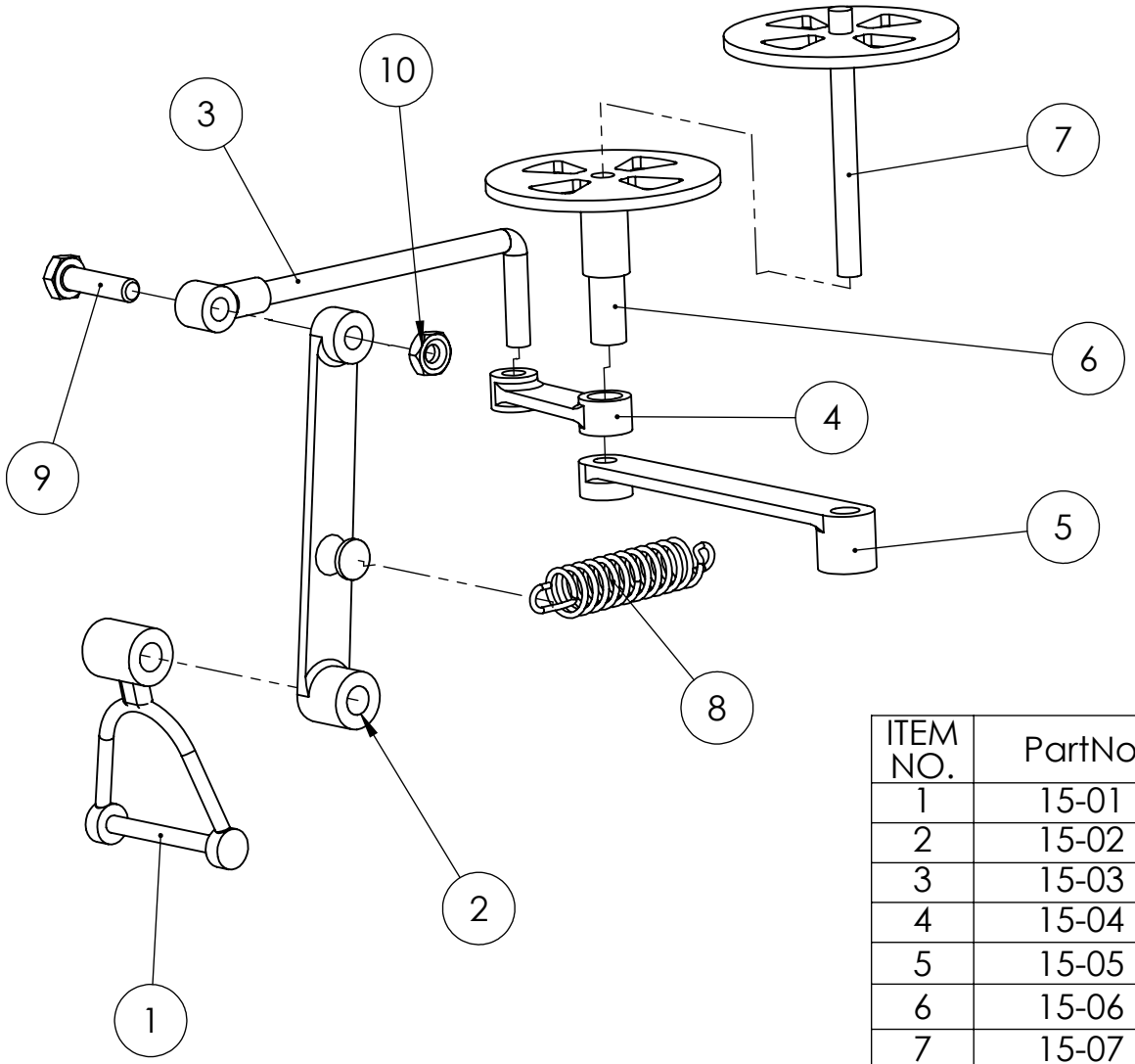
DRAWN BY: Vincent Colson DATE: 5/3/2011

FILE NAME: Assembly 15-00 Left.SLDPRT

Odom's Inferno

PART #: 15-00 QTY:

SCALE: 2:3 SHEET: 1 OF 9



ITEM NO.	PartNo	DESCRIPTION	QTY.	SHEET
1	15-01	Governor Wing	2	3
2	15-02	Connecting Lever	2	4
3	15-03	Connecting Lever	2	5
4	15-04	Connecting Pin	2	6
5	15-05	Throttle Lever	2	7
6	15-06	Governor Throttle Valve	2	8
7	15-07	Hand Throttle Valve	2	9
8	9433K47	Governor Spring	2	
9	99894A105	Linkage bolt	2	
10	90499A029	Linkage nut	2	

Note: Right and Left assembly are made of the same parts except Item 3 is assembled in opposite fashion as shown per assembly.

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

ME301 Spring 2011
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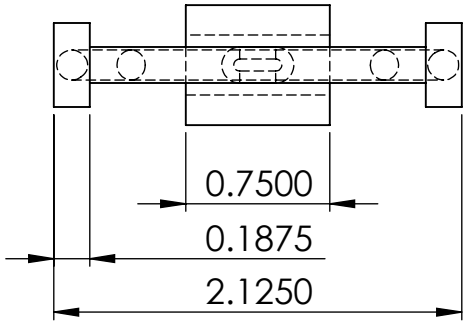
(The London Genltleman)

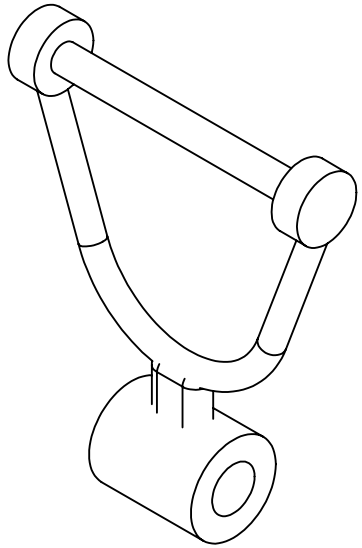
DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

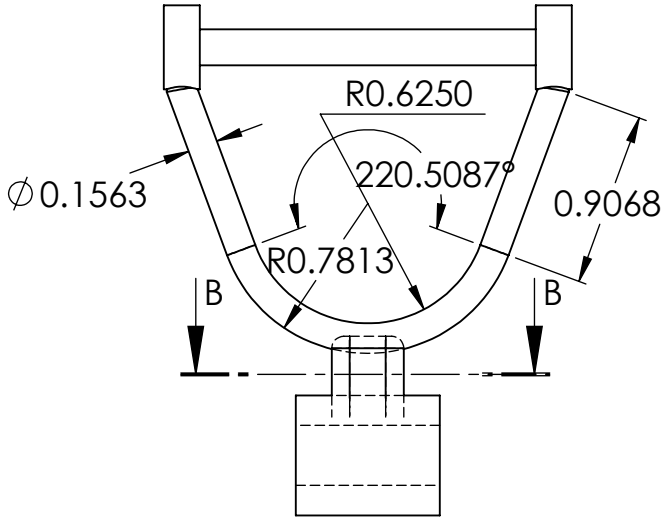
DESCRIPTION: Right Side Governor Linkage
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 5/3/2011
FILE NAME: Assembly 15-00 Right.SLDPRT

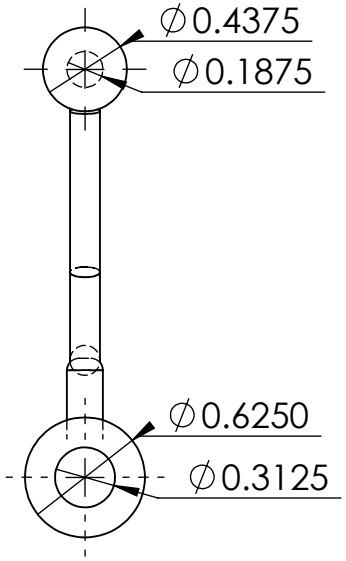
Odom's Inferno

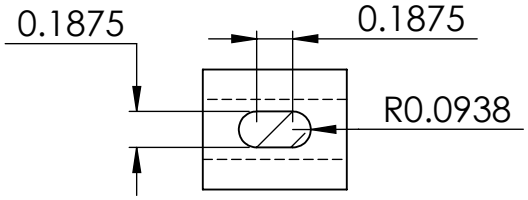
PART #: 15-00 QTY: 02
SCALE: 1:2 SHEET: 2 OF 9











SECTION B-B

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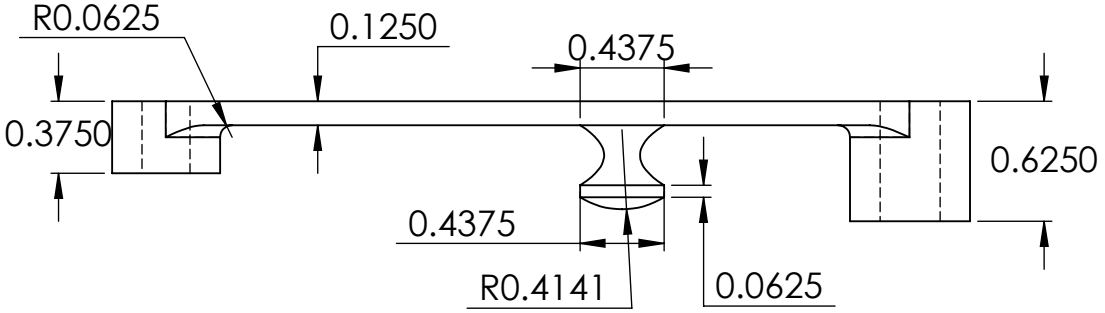
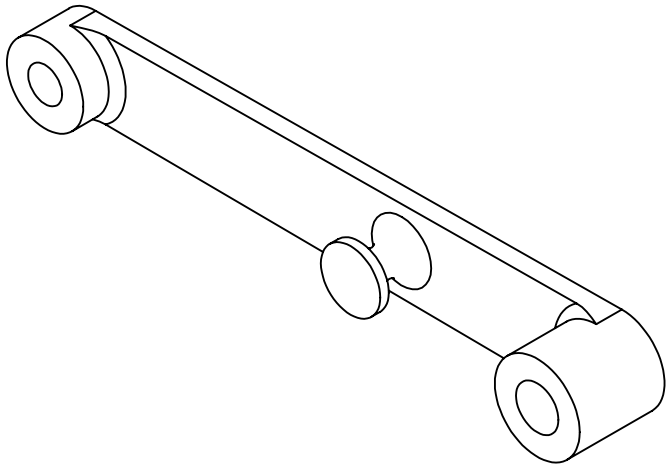
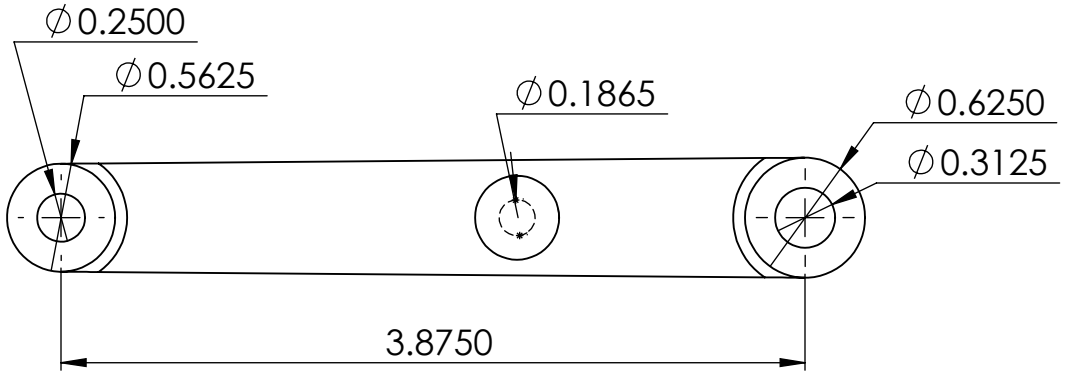
	MATERIAL: AISI 1020	
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Governor Wing	**Odom's Inferno**
	CHECKED BY: / DATE:	
	DRAWN BY: Vincent Colson / DATE: 4/27/2011	PART #: 15-01 / QTY: 2
	FILE NAME: Wing.SLDPRT	SCALE: 1:1 / SHEET: 3 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Galvanized Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Connecting Lever
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 5/2/2011
FILE NAME: Rod1.SLDPRT

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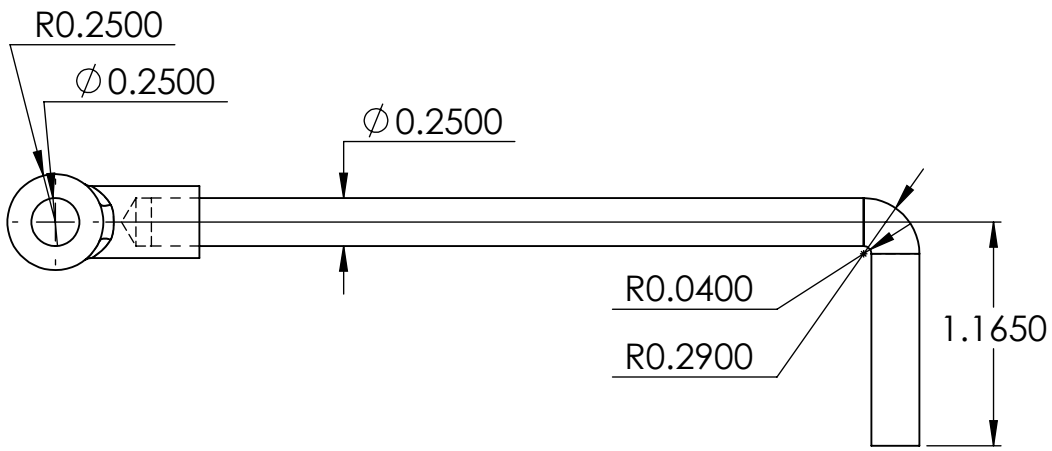
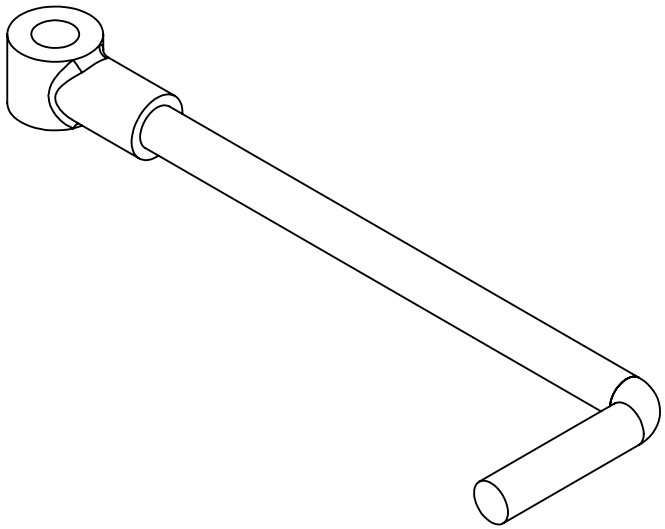
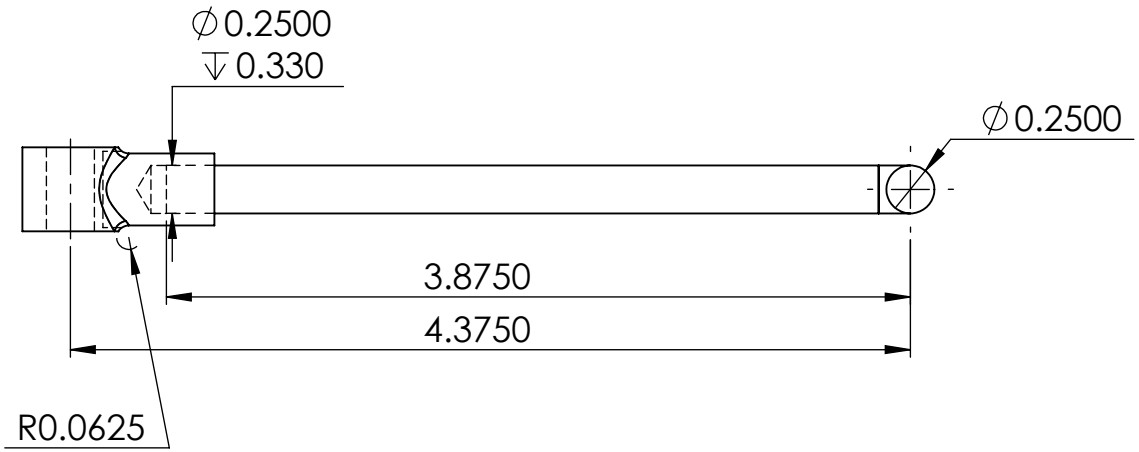
Odom's Inferno

PART #: 15-02 QTY: 2
SCALE: 1:1 SHEET: 4 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Galvanized Steel

DEFAULT TOLERANCES:

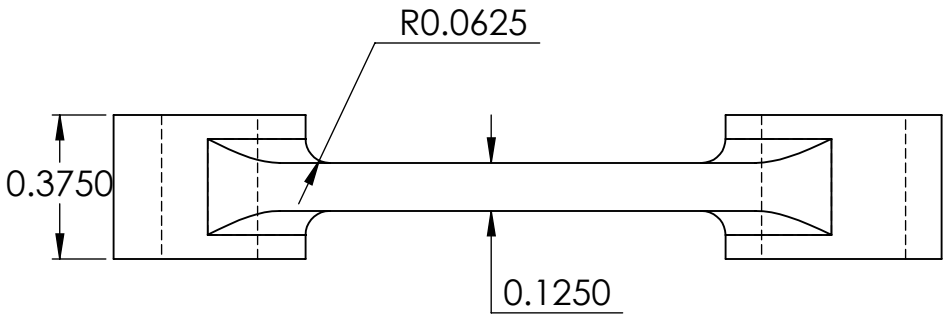
LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

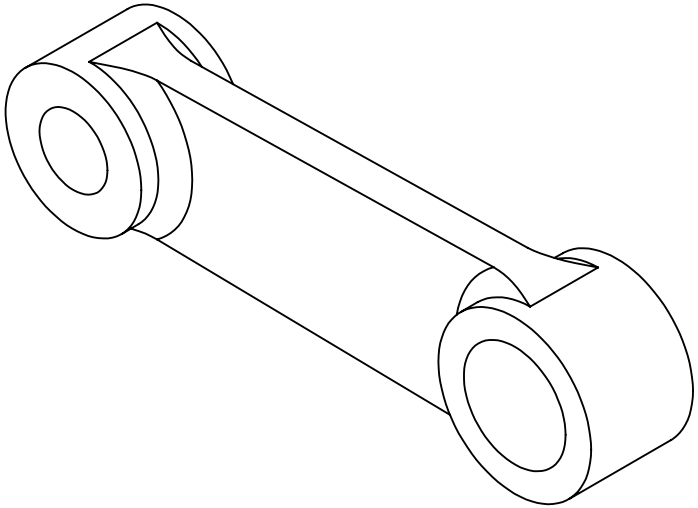
DESCRIPTION: Connecting Lever
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 4/27/2011
FILE NAME: Rod2.SLDPRT

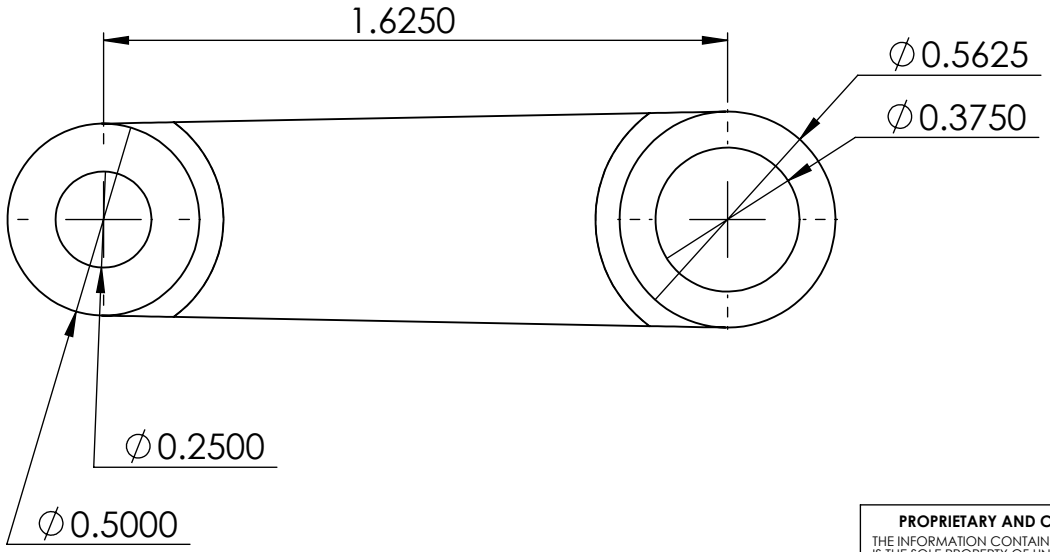
ME301 Spring 2011
Final Project
(The London Genltleman)

Odom's Inferno

PART #: 15-03 QTY: 2
SCALE: 1:1 SHEET: 5 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Galvanized Steel

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(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Connecting Pin

CHECKED BY: DATE:

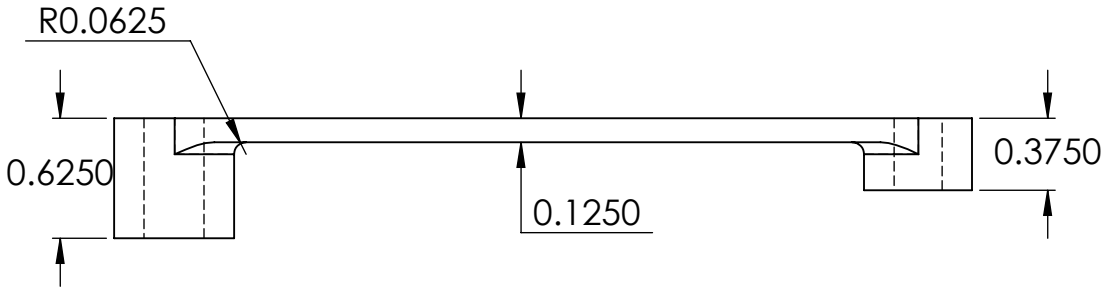
DRAWN BY: Vincent Colson DATE: 5/2/2011

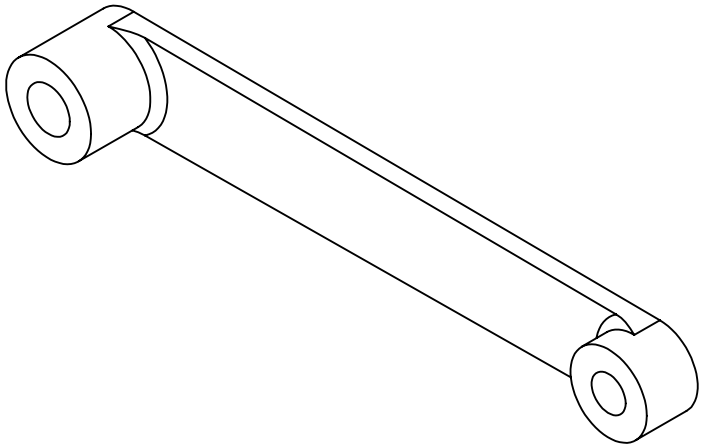
FILE NAME: Rod3.SLDPRT

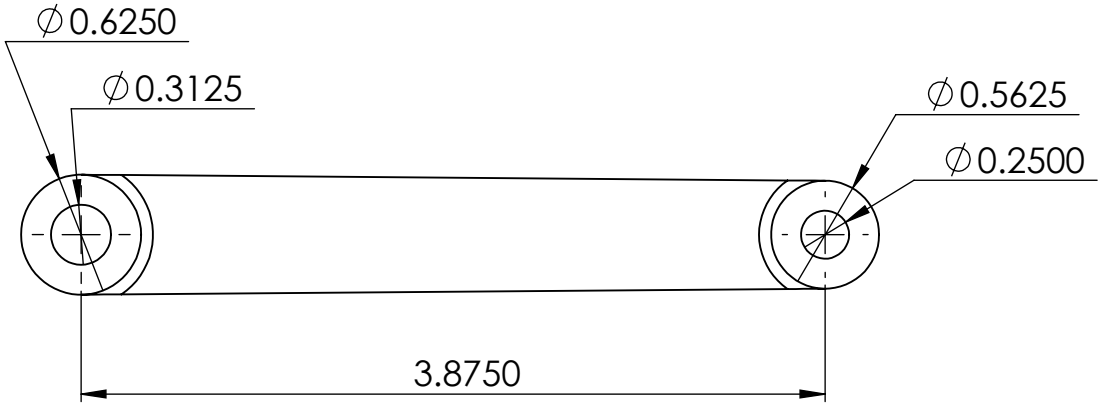
Odom's Inferno

PART #: 15-04 QTY: 2

SCALE: 2:1 SHEET: 6 OF 9







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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Galvanized Steel

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Throttle Lever
CHECKED BY: DATE:
DRAWN BY: Vincent Colson DATE: 4/24/2011
FILE NAME: Hand Regulator Lever.SLDPRT

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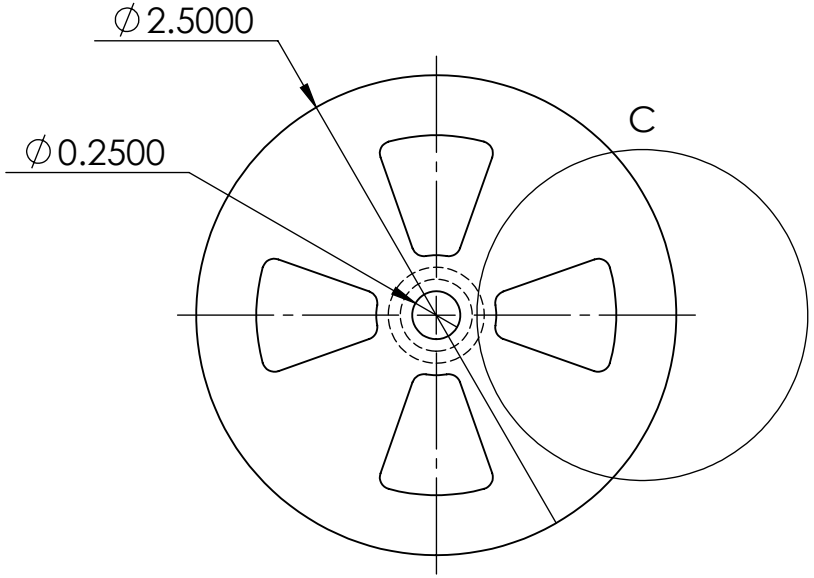
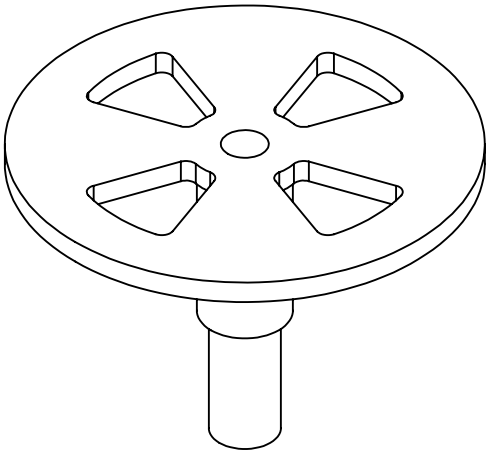
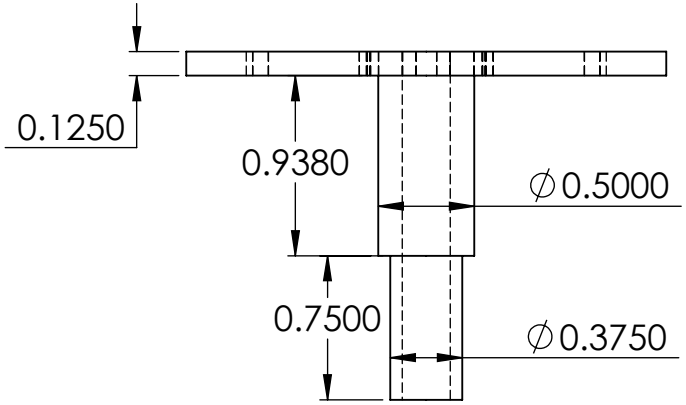
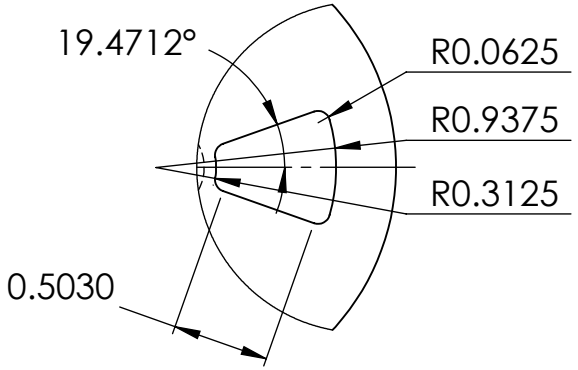
Odom's Inferno

PART #: 15-05 QTY: 2
SCALE: 1:1 SHEET: 7 OF 9









DETAIL C

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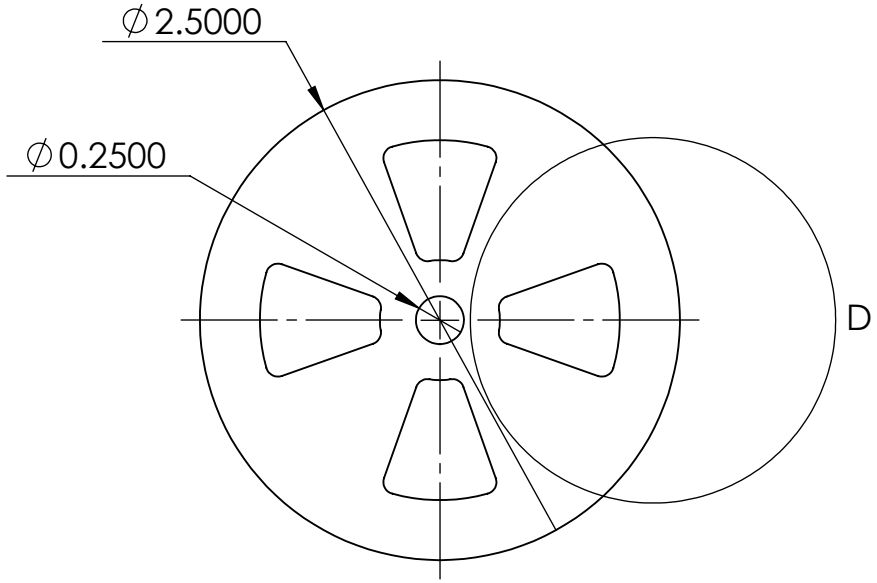
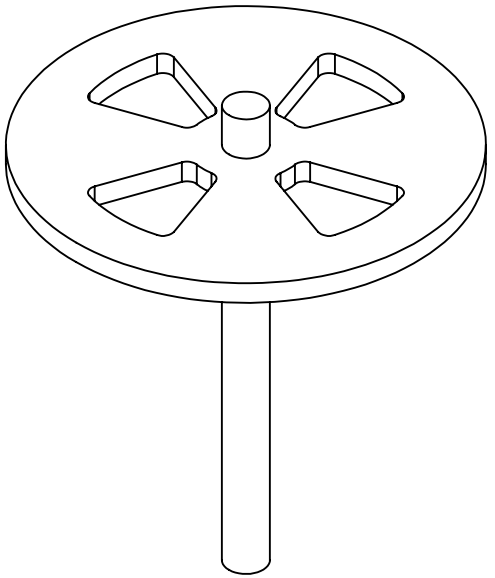
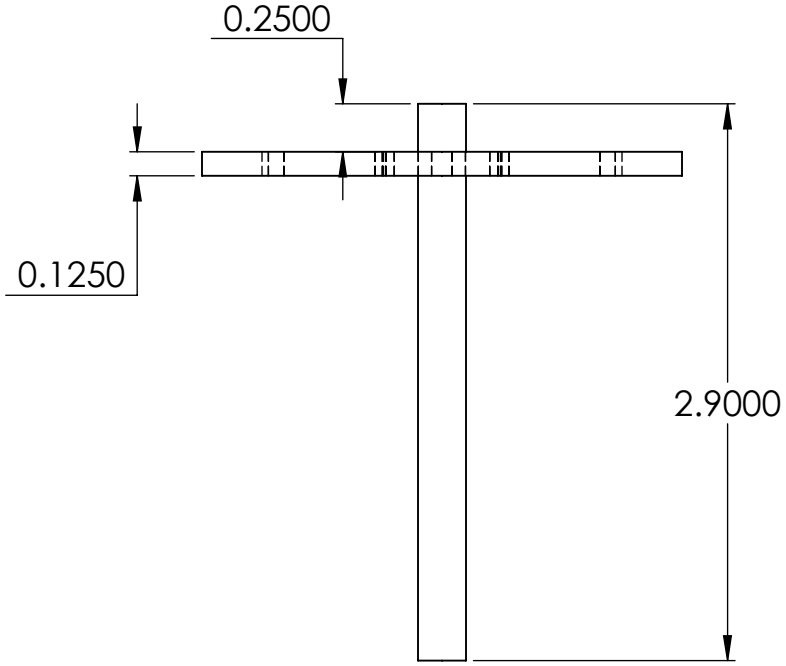
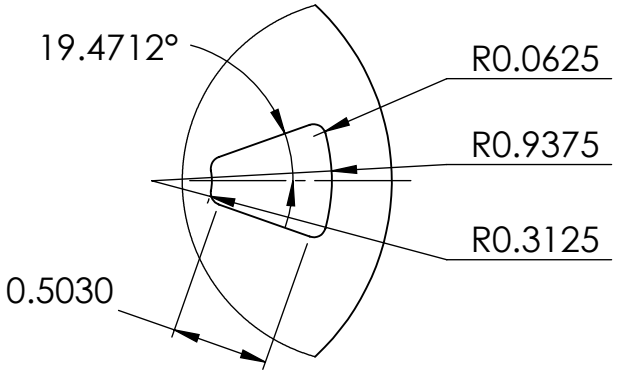
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Governor Throttle Valve CHECKED BY:	DATE:	**Odom's Inferno**
	DRAWN BY: Vincent Colson	DATE: 4/24/2011	PART #: 15-06 / QTY: 2
	FILE NAME: Intake Valve 2.SLDPRT		SCALE: 1:1 / SHEET: 8 OF 9









DETAIL D

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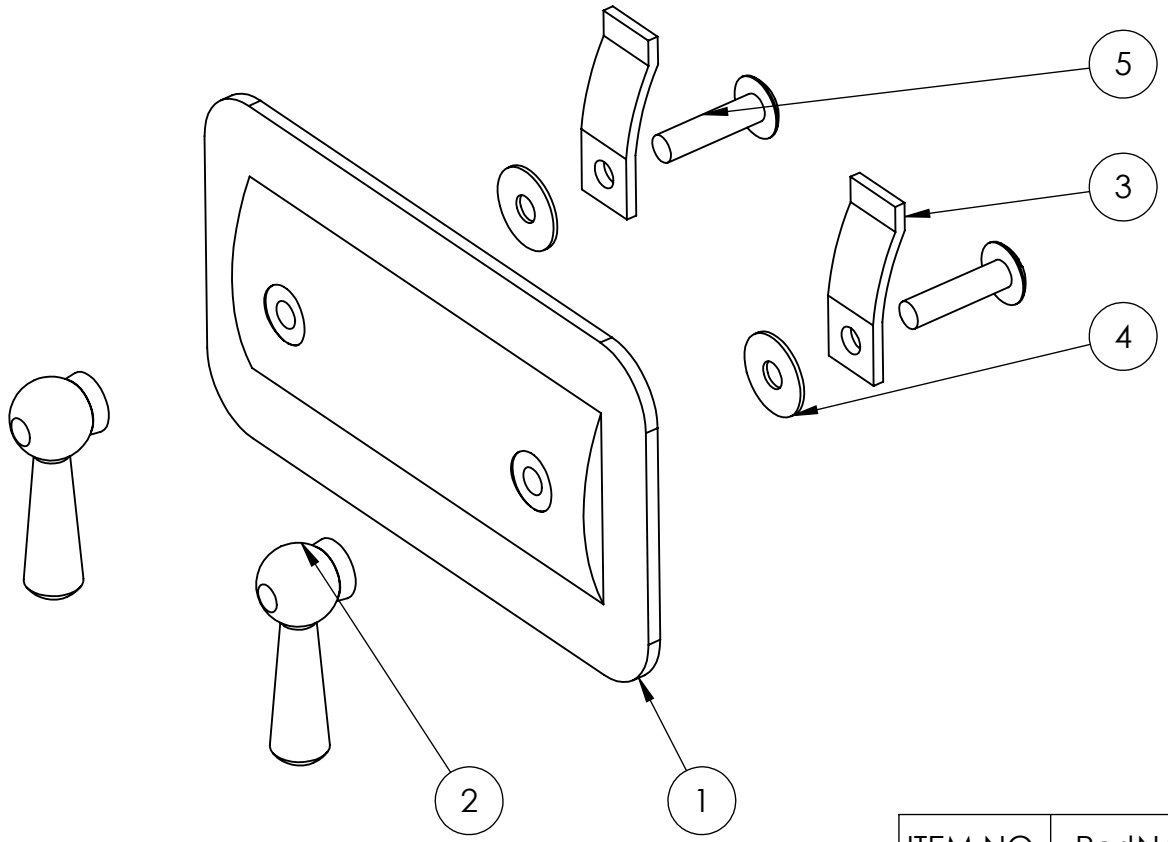
	MATERIAL: AISI 1020		
DEFAULT TOLERANCES: LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002 ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'	DESCRIPTION: Hand Throttle Valve		**Odom's Inferno**
	CHECKED BY:	DATE:	
	DRAWN BY: Vincent Colson	DATE: 4/24/2011	PART #: 15-07 QTY: 2
	FILE NAME: Intake Valve 1.SLDPRT		SCALE: 1:1 SHEET: 9 OF 9



ITEM NO.	PartNo	DESCRIPTION	QTY.	Sheet
1	17-01	Panel	1	2
2	17-02	Handle	2	3
3	17-03	Latch	2	4
4	17-04	Washer	2	
5	17-05	SL-THMS 0.3125-18x2x1.5-N	2	

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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL:

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Final Project
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DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Small Cover Plate

CHECKED BY: DATE:

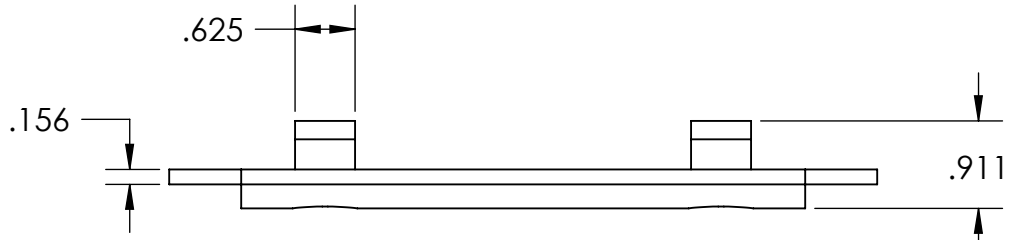
DRAWN BY: Casey Sweeney DATE: 5/4/2011

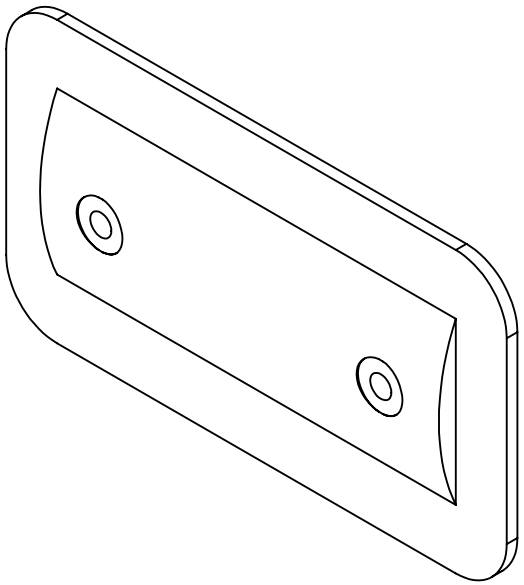
FILE NAME: 17-00 Small Crank Case Side Cover.SLDPRT

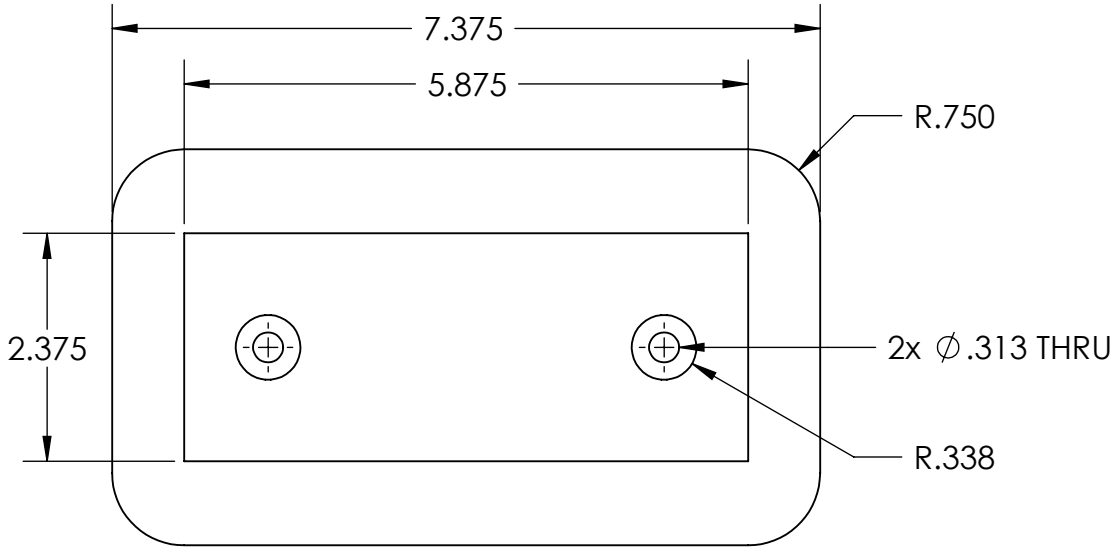
Odom's Inferno

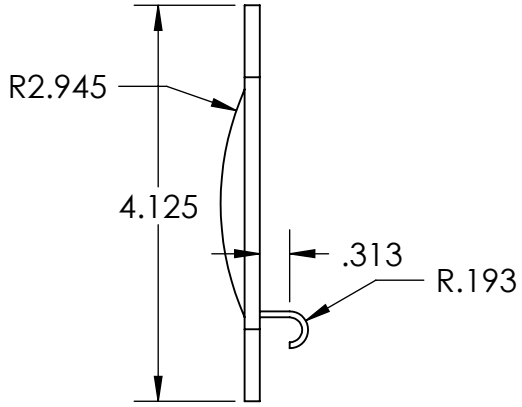
PART #: 17-00 QTY: 1

SCALE: 1:2 SHEET: 1 OF 4









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: Gray Cast Iron

DEFAULT TOLERANCES:
LINEAR: X. ± .25, X.X ± .1, X.XX ± .01, X.XXX ± .002
ANGULAR: X. ± 2, X.X ± 1, X.XX ± 0 30'

DESCRIPTION: Panel
CHECKED BY:
DATE:
DRAWN BY: Casey Sweeney
DATE: 5/4/2011
FILE NAME: 17-01 Panel.SLDPRT

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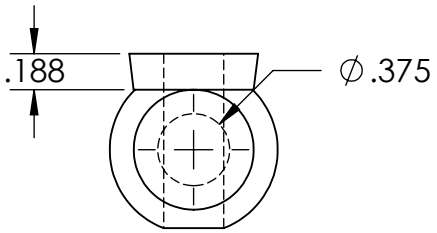
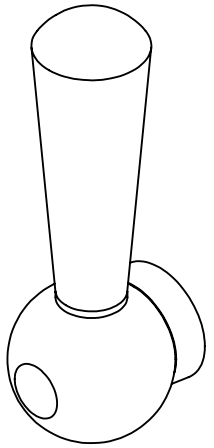
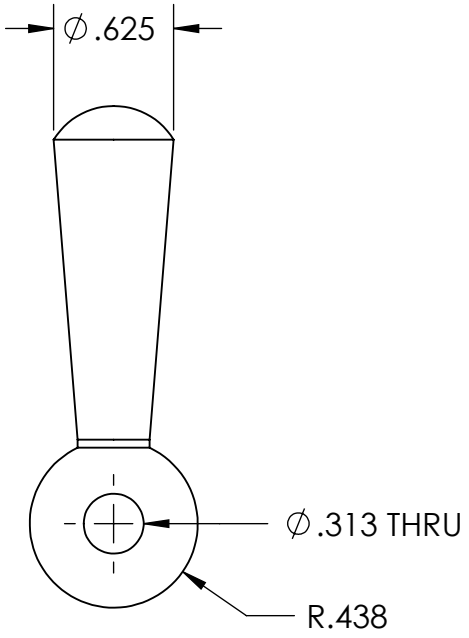
(The London Genltleman)

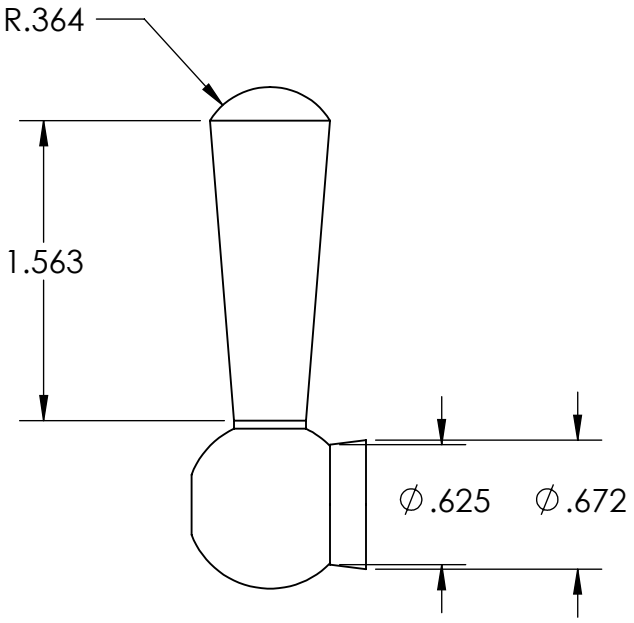
Odom's Inferno

PART #: 17-01
QTY: 2
SCALE: 1:2
SHEET: 2 OF 4









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 1023 Carbon Steel Sheet (SS)

DEFAULT TOLERANCES:

LINEAR:
X. ± .25
X.X ± .1
X.XX ± .01
X.XXX ± .002

ANGULAR:
X. ± 2
X.X ± 1
X.XX ± 0 30'

DESCRIPTION: Handle

CHECKED BY: DATE:

DRAWN BY: Casey Sweeney DATE: 5/4/2011

FILE NAME: 17-02 Handle.SLDPRT

ME301 Spring 2011 Final Project
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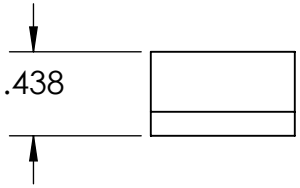
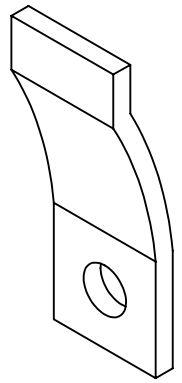
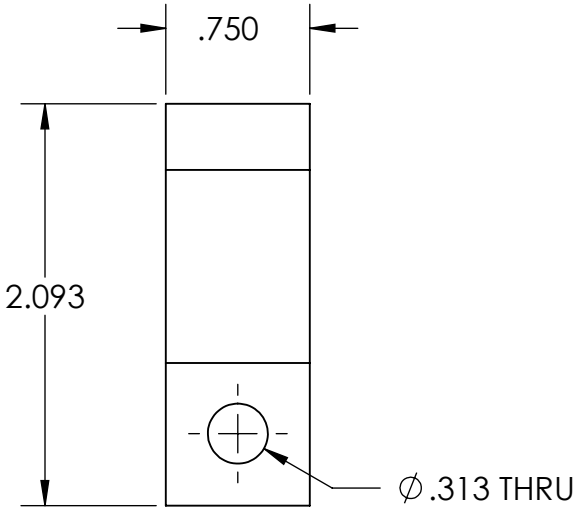
Odom's Inferno

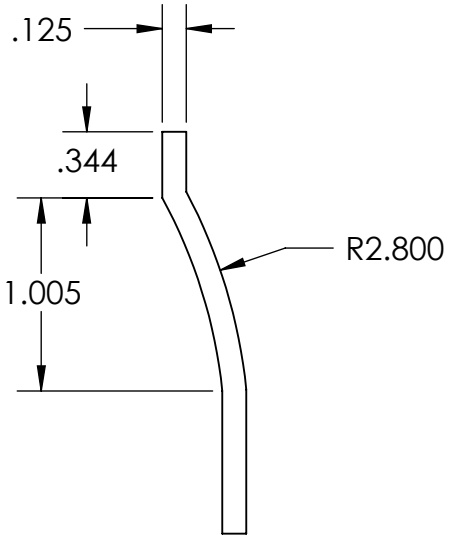
PART #: 17-02 QTY: 2

SCALE: 1:1 SHEET: 3 OF 4









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DIMENSIONS ARE IN INCHES
THIRD ANGLE PROJECTION

MATERIAL: 1023 Carbon Steel Sheet (SS)

ME301 Spring 2011 Final Project
(The London Genltleman)

DEFAULT TOLERANCES:

LINEAR:	ANGULAR:
X. ± .25	X. ± 2
X.X ± .1	X.X ± 1
X.XX ± .01	X.XX ± 0 30'
X.XXX ± .002	

DESCRIPTION: Latch

CHECKED BY: DATE:

DRAWN BY: Casey Sweeney DATE: 5/4/2011

FILE NAME: 17-03 Latch.SLDPRT

Odom's Inferno

PART #: 17-03 QTY: 2

SCALE: 1:1 SHEET: 4 OF 4